

ECHO IRELAND

Journal of the
Irish Radio Transmitters Society
September/October 2006

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The views expressed in Echo Ireland do not necessarily represent the views of the Society or the Editor

Next deadline November 17th



SSB Field Day Winners 2006

Niall EI4CF, Noel EI6HW, Mick EI5EAB, Fergus EI6IB, Brian EI8IU, Mark EI-1511 SWL, Pat EI9HX

**Shannon Basin Challenge
November 5th 2006**

**Mayo Rally - Knock
November 26th 2006**

**IRTS 80m Contest
January 1st**

**Theory Examination
January 18th**

**Limerick Rally
March 11th**

**Spring Counties Contest
April 9th**

**IRTS AGM Weekend
April 21/22nd 2007**

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News Bulletins and Readers

Sunday			
Dublin	1100	7.043	SSB
Wicklow	1130	3.680	SSB (as Gaeilge)
Dublin	1145	145.525	FM
Dublin	1200	3.650	SSB
Tipperary	2030	145.450	FM
Dublin	2130	145.525	FM
Monday			
Cork	2000	145.750	FM
Limerick	2000	145.725	FM
Louth	2000	145.675	
Galway	2000	145.625	
Tuesday			
Waterford	2130	145.650	FM

Colm EI3H, Sean EI7CD, Gerry EI8CC
Paddy EI7GK, Danny EI6GS
Sean EI5GH, Brendan EI8IB
As 1100
Tommy EI7IT, John EI2JB, Andy EI5JF
As 1145

Con EI7DJB, Vincent EI7HN
Brian EI9AL, Tony EI2AW
Peter EI4HX, Thos EI2JD
Aengus EI4ABB, Richard EI5GC

Gareth EI7FZB, Robbie EI8FZB

AMSAT-DL launch funding appeal for P3E

AMSAT-DL have launched a unique fundraising appeal for the proposed Phase-3E satellite.

This satellite will provide operators with stable communications between continents.

It will have transponders for 145, 435, 1268 and 2400 MHz and should be ready for launch in 2007.

If you visit their website, www.p3e-satellite.org you will be given an opportunity to contribute towards the cost of P3E.

You can reserve your own pixel fields where you can place your callsign, name, logo etc.

Irish Radio Transmitters Society

80m Contest

January 1st 2006

1200 - 1500

IRTS

Committee Meeting

Saturday November 4th

Montague Hotel

Portlaoise

IRTS Elected Committee Members 2006/07

President Fr. Finbarr Buckley EI1CS
Vice-President Paul Martin EI2CA

Committee

Thos Caffrey EI2JD
Joe Fadden EI3IX
Dave Moore EI4BZ
Peter Grant EI4HX
Paul O'Kane EI5DI
Fergus Millar EI6IB
Sean Nolan EI7CD
John Ronan EI7IG
Seamus McCague EI8BP
Brian Canning EI8IU
John McCarthy EI8JA

Silent Key Louis Fleming EI5EC

It is with deep regret that we learned of the passing of Louis Fleming EI5EC on Tuesday 12-09-06.

Funeral was on Thursday morning 14th September after 11.30am mass.

We offer our sympathy to his family.

Ar dheis De go raibh an anam

Noel EI6HW for The Shannon Basin Radio Club

Silent Key George Sheehan EI9FL

George Sheehan of Whitepoint Drive, Cobh, Co. Cork passed away on September 2nd in the Bon Secours Hospital Cork.

While George was not very active on the air, he kept in close touch with developments in the hobby via the various media.

We extend our deepest sympathies to his wife Madeline and daughter Joanne and extended family.

Silent Key Patrick Griffin EI2FZ

We regret to announce the death of EI2FZ - Patrick "Paddy" Griffin, Duagh Camp, Tralee, Co. Kerry on Wed. 11th October 2006.

Paddy was a long-time radio enthusiast, active until recently on 2m and HF.

A wonderful ambassador for the hobby and a true gentlemen, he will be missed by his family, friends and colleagues in Kerry.

May he rest in peace.

Congratulations

Congrats to Peter Mac Dougall, EI 299 who is now the proud holder of the call-sign G7VEW, the callsign of his late brother.

Congratulations to the following people who participated in the Theory Course with South Dublin Radio and recently got their call-signs;

Finbarr EI4GOB, Terry EI4GLB, Stephen EI4GKB and Fred EI4GMB.

Australian Foundation Licence Success

On Wednesday 19 October 2005 the Determination made by the Australian Communications and Media Authority amending the Amateur Licence Conditions Determination became the law and from that moment the Foundation licence existed in Australia.

On 29 September 2006, just 3 weeks short of a year from the coming into force of the new licence structure, the WIA issued the 1,000th certification of qualification for an Amateur Operator Certificate of Proficiency (Foundation).

That figure of 1,000 qualifications broken down by states and territories is as follows:

Australian Capital Territory -	38
New South Wales -	277
Victoria -	353
Queensland -	87
South Australia -	111
Western Australia -	0
Tasmania -	74
Northern Territory -	10

A year ago, over 70 people had qualified as WIA Assessors.

Today there are 141 WIA Assessors and 15 Nominated Assessors across the country.

So in the year the number of Assessors has doubled.

WIA President, Michael Owen VK3KI said today "I believe the Foundation licence has been successful in Australia. It has increased, in a year, the total number of amateurs by around 1,000. It has introduced new people into amateur radio, and into the clubs and the WIA membership has grown significantly. And the fact that there are significant differences in the number of successful candidates in different states means that a real opportunity exists for us to attract a further 1,000 new "F" calls in the next year."

Wireless Institute of Australia - <http://www.wia.org.au>

South Dublin Radio Club

South Dublin Radio Club and amateur radio in general got a good publicity boost in late September through an article in "Southside", which is distributed free to all households in the south of the city, about the club's activities.

The article explained the benefits of amateur radio and also publicised SDR's theory classes.

IRTS 75th Jubilee AGM Weekend

April 21/22nd 2007

Vienna Woods Hotel, Cork

Next year we celebrate the 75th jubilee of the IRTS and the committee are pleased to announce that the Jubilee Annual General Meeting weekend will be held at the Vienna Woods Hotel in Cork on April 21st and 22nd 2007.

The event will be organised by a sub-committee of the IRTS committee. Full details will be announced in shortly



John EI8JA, Nicky EI3JB, Conor EI4JN, Declan EI9FVB, John EI7IG, Gareth EI7FZB, John EI2GN

Road Racing in Waterford

On the 27th of August last, experimenters from Waterford and Cork provided communications for a major road race in Waterford city. This was the first time in eight years that such an event had taken place in the city. The host club Comeragh Cycling Club were anxious to show that they could pull it off and so as to get to host the event annually and hopefully improve the fortunes of the club. Richie, EI9HR a keen cyclist himself, was asked initially to get involved in the stewarding side of things and it became apparent that the most dangerous section of the course a fast down-hill section with a very sharp S bend was also a radio black spot.

Experiments were conducted by Richie and John EI8JA initially on UHF and also on VHF simplex channels. Experiments were then conducted via the East Cork Repeater on Helvick Head and this proved very successful.

Comreg when consulted and then Neil EI3JE the repeater keeper for the Helvick Head East Cork Repeater was consulted and he was most supportive and enthusiastic about the idea and even donated some equipment, which was put to good use on the day. With 4 mobiles and 4 major roundabouts and also a command point to be manned organisers required a minimum of 12 operators 9 local radio amateurs had pledged support then into the breach stepped 3 radio amateurs from Cork, John EI2GN, Declan EI9FVB and Conor EI4JN all experienced AREN operators. A series of meetings were then held leading up to the event.

Overall, all the operators performed brilliantly and were a credit to the hobby. APRS will probably play a greater role next time. In addition to those already mentioned, the following people also helped out on the day; John EI8FRB, Brian EI8JS, Nicky EI3JB, Garreth EI7FZB and Mick EI3IQ.

Everyone enjoyed the event and the organisers were very satisfied with a job well done. Richie would like to thank all who helped on the day.

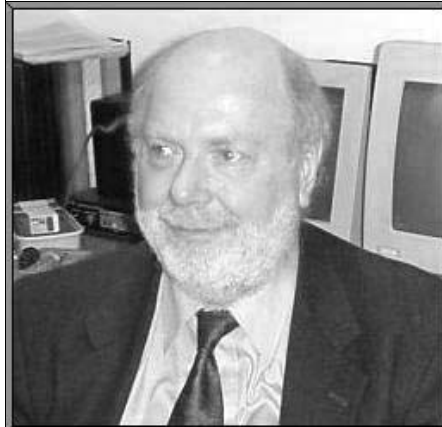
Theory Examination

The next Theory Examination for the experimenter's licence will be held on Thursday the 18th of January 2007 at 2 p.m. in the ComReg Offices, Irish Life Centre, Dublin.

Anyone wishing to sit the examination should contact Seán Nolan EI7CD at QTHR or by e-mail to "ei7cd@gofree.indigo.ie".

Those studying for the examination may wish to secure a copy of the CD Course Guide prepared by the Society. These are available from Seán EI7CD at a cost of €5.00 to cover production costs post, packaging and registration.

Dave EI3IO gains IOTA Award on 6m



Congratulations to Dave, EI3IO who has been informed by the RSGB IOTA checkpoint that he has qualified for the first VHF (6m) IOTA award to a station in the West European Isles (Anglo-Celtic Isles) with 100 island references.

These comprise 59 island references from Europe, 10 from Africa, 5 from Asia, 20 from North America, 1 from Oceania and 5 from South America.

One of Dave's cards was rejected as an illegal 6m operation. This was for EU-187, Gavdos Island, which was an Italian expedition to SV9 prior to 12 May 2006 when for the first time non Greek, CEPT Class 1 licensees were authorised to use 4m and 6m in Greece.

Dave's current worked island total on 6m is 108.

The IOTA VHF award has similar rules to the HF award; however the qualification requirements are slightly lower, in that at least 1 contact should be made with each of 5 continents.

Further IOTA information is available at <http://www.rsgbiota.org> ."

6 Metre SSB Net

A monthly six metre net meets on the first Monday of each month on 50.135 SSB (horizontal polarisation) at 2100 (local time).

Activity seems to be primarily in the Munster (south-west) area but all are welcome and encouraged to participate.

Frequency: 50.135 MHz

Mode: SSB

Date: First Monday of each month

Time: 2100 (local time)

New content has been posted at the EI8IC Contesting Website...

Exciting news - NAOMI now a windows program and free to download

NAOMI, the North American Overlay Mapper has been re-issued as a Windows program. After much feedback from previous NAOMI users, I have completely rebuilt the NAOMI map-suite, and integrated it into a Visual Basic shell for ease of use and full Windows compatibility.

There's more good news: starting with the latest version v1.2, NAOMI is now available for download completely free of charge. Get a FULLY WORKING copy of NAOMI on your computer for as long as you wish to keep it. No nag-screens, no adverts, nothing to go out of date, no need to do anything else but use and enjoy the best North American Ham Radio Mapping system currently available.

Here are some of the great NAOMI features:

47 full screen (1020 x 650 pixel) maps at 1:2,000,000 scale. 2 full screen overview maps at 1:20,000,000 scale

Each map has 9 backgrounds: CQ Zones, ITU Zones, Time Zones, ARRL Sections, States and Provinces, Counties and Municipal Regions, UTM Zones, Satellite Photo, Color Relief Map.

Each map has 16 foregrounds: State, County, Areacode, Zipcode, Water, Urban Areas, Major City, Minor City, Roads, Railroads, Prefix, Section, IOTA, Flags, Grid Locators, Lat/Lon mesh.

Click Quick-Load feature, or select map with position annotated from a range of Quick-Access entry-lists: State Capital, Large and Small Cities (over 28,000), Counties, Area Codes, IOTA, etc. etc.

On-screen map pins, instantly referenced to all other positional data. Calculate distance and bearing, draw on-screen path and range-rings.

A large selection of easy-to-use Calculation Tools. Compare positional and identification data, show Horizon Distance, Sun and Moon Rise, etc. etc.

Real-Time Mouse Tracking, with continuous Positional, Grid-Locator, Distance, Bearing, and Long Path details on the Status Bar, in a choice of user-defined formats, fully customised to your own location.

APRS integration displays live position icons, track-lines, and breadcrumbs for all APRS stations on the FindU database. Custom call entry and time filtering.

Internet integration for instant access to a variety of online services related to map position: Repeater Databases, Weather Radar Images and Forecasts, TerraServer access, Propagation and Operating Resources.

User Lists, where you can keep your own collection of locations, such as way-points, club or group members, contact points, beacons etc. Easy to create and amend with the special List Editor tools. Plot the positions on the current map, or compare and reference to all other positional data.

On-screen multi-zone Time Display. Dragable Locator map, Scale Bars, and Grid Graticules.

Table Viewer, to view spatial data in list-form. 130 tables provided. Search and Sort Facilities included.

Comprehensive multi-page Help System and Information Guide.

Available online at <http://www.mapability.com/ei8ic/>

73s Tim EI8IC

Limerick Radio Club operate from Tarbert Lighthouse



Limerick Radio Club operated at Tarbert Lighthouse for the International Weekend on August 19/20 using the callsign EI4TLH.

There was a large turnout of members operating over both days of the event, and despite the poor radio conditions at the time a large number of contacts made. The outing was enjoyed by all who attended and members are already looking forward to organising next years event.

Top photograph: Michael EI2IX
Bottom: Tony EI2AW and John EI5FOB

Dubus Magazine

IRTS has been appointed as the Irish distributor for the DUBUS Magazine, a quarterly magazine for VHF, UHF and Microwave enthusiasts.

This is a publication that no serious VHF/UHF/Microwave DXer should be without.

It is mailed directly to subscribers from the publishers in Germany.

The annual subscription remains unchanged at €22.00 for 2006 and should be forwarded to:

Dave Moore, EI4BZ,
Dooneen, Carrigtwohill,
Co. Cork.



HF Happenings

with Dave Deane EI9FBB

Welcome to another edition of 'HF Happenings' and what an eventful and active 2 months it's been with the many DXpeditions and contests that have been QRV lately.

Recapping from the last edition you may recall the name 'Dap Mares'? This of course was the name of the ship that transported the recent successful 3Y0X to and from Peter I Island. The Honduras News net reported that on the last week of September, this ship mysteriously sank in the Catalina Bay, Punta Arenas Harbour, Chile. This ship was privately owned by the Pivcevic family since early 2005 and at a cost of \$3.5m, it had been equipped solely for Antarctic travel. After being anchored for 5 days in 18m depth and only 500m from the shore, it only took less than 6 minutes for her to go under. Thankfully there were no injuries. The 5 crew members that were on board were rescued by a passing ferry.

Swains Island KH8SI

Also, one may remember the late announcement of the newest addition to the DXCC list, Swains Island. This last minute DXpedition took place over the last week in July and were signing KH8SI. A total of 16,390 QSO's were made of which 25 were RTTY, 3750 were on CW & 12,615 were on SSB.

The continental and band listings are as follows:

Band	QSO's	Cont	QSO's
160m	227	AF	53
80m	266	AS	5,132
40m	1,595	EU	1,655
30m	2,426	NA	8,810
20m	7,096	SA	137
17m	3,657	OC	603
15m	800		
12m	323		

Anyone running computer logging pro-

grams may wish to update with the following:

Prefix	KH8/S
Entity Name	Swains Island
Effective date	21 st July 2006
CQ Zone	32
ITU Zone	62
Continent	Oceania
IOTA	OC-200
GMT Offset	-11.00
Latitude	171.05 W
Longitude	11.05 S
QSL Buro	No

This operation has already been approved towards DXCC credit.

Here's hoping for another more intense DXpedition from here over the coming months to provide the newest DXCC entity to the DX community. In fact, just in time for this issue, news has arrived that YT1AD, Dr. Hrane is putting together a large team of operators to go to Swain's next year. This operation is currently in the planning stages for a trip from September 12th to October 3rd '07.

The Russian / American team will be a total of 10 days on the Island with 6 QRO stations on the air.

K1LZ, K3LP, N6TQS, RA3AUU, RZ3AA, UA3AB, RU3AD, YZ7AA, YU1EA & KD7RCD have already been confirmed as some of the operators.

As this one is still almost 12 months away, we'll all have to QRX for a while longer until more update information gets posted.

Talks are already evolving regarding the possible addition of yet another DXCC entity over the coming year. Kosovo has made a formal pitch for independence from Serbia as a result of their first top-level talks since 1999 when NATO drove out the Serb forces from Kosovo. This was the first time that the 2 sides have discussed the question of independence of

Kosovo. It is expected that a settlement will be made over the next 12 months.

A new IOTA has been QRV lately when Inhacamba Island AF-014 was activated by G3OCA and DL6DQW from 5th to 14th August. This British/German duo both signed C94KF and this one can be QSL'd to Ken, G3OCA.

By the time you read this, those still needing Malawi should be looking out for Harry, G0JMU signing 7Q7HB on 80m to 10m SSB & CW. He also hopes to be QRV on both 6m and top band as he already has antennas here since his last operation. Harry intends to be QRV from here this visit until mid January '07 so hopefully a few EI's should make it through. This one can be QSL'd to G0IAS.

As mentioned briefly in the last issue, Libya will be QRV once again as 5A7A in November. It has been almost 5 years since the last DXCC approved operation took place from here and 5 years previous brings it back to 1996. Libya is currently number 53 on the CQ magazines most wanted list. This multi-national team is appealing for financial help and have a web page up and running at <http://5a7a.gmxhome.de/>

TX6A will be QRV slightly sooner by F6AML Serge operating from Mayotte Island from October 5th to 17th. He will be QRV on all bands and modes and this semi-rare one can be QSL'd to his home-call or via the buro.

Another one around the same time frame to watch out for is a 2-man DXpedition to the Congo. DJ6SI Baldur and DJ9ZB Franz will be signing TN6X and TN0Z respectfully. Exact dates are still being negotiated but it is expected sometime in late October to early November. We will all have to QRX on this one for another while.

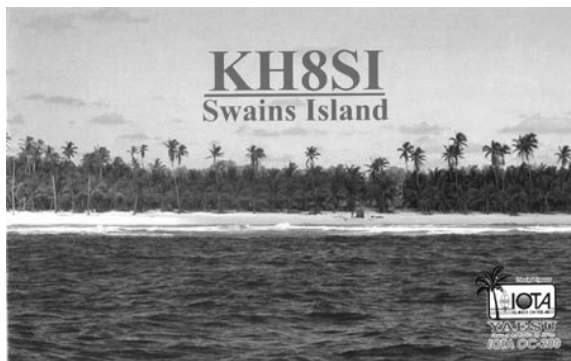
One interesting one that has been confirmed though, is the coming German/Mexican DXpedition to Socorro Island IOTA NA-030.

This one will be QRV on all bands and modes from October 17th until November 3rd.

Socorro Island of course counts as Revil-lagido, XF4 for DXCC credit. The call-sign of XF4DL has already been confirmed and approved.

DF7TH, DJ5IW, DK2WV, DL3DXX, DL8LE, DL9RCF, XE1AY, XE1FRF, XE1FXF, XE1FXM, XE1FXZ, XE1GRR, XE1HBU, XE1MMB,

(Continued on page 7)



(Continued from page 6)

XE1UN & XE2K will all be part of this 16 man team from this rare one and also intend to operate from the rare IOTA NA-115 Clarion Island for just a few hours. They intend to have up to 5 High power stations QRV with 3 of these QRV 24/7. This to be QSL'd to DL9NDS. They have a web page available at : www.xf4dl.xedx.org/

The previously mentioned DXpedition to Market Reef (OJ0LA) ran a bit late this time around cutting their operating time a bit short due to predicted gale force sea winds on their outward journey. However, just several hours after landing, the QLF team were QRV with one station and shortly afterwards were fully operational on all bands and modes. This was a very successful operation with some very loud signals being heard on many of the bands. The QSL manager for this operation (LA9VDA) has stated that to date, all direct QSL requests have already been mailed. Buro cards can be requested by dropping an e-mail to : la9vda2003@yahoo.no

JT800OK (JT eight hundred OK) has been very active recently on the bands and is certainly fulfilling the demand for Zone 23 for whoever needs it. This is of course a full, 1 month long DXpedition from 7th Sept. to 7th Oct '06 and has been organised by an all Czech. Team comprising of OK1XC, OK1FM, OK1ES & OK1CCK. They have been QRV on all bands and modes running 2 high power stations. Below, you can see their log containing the 'EI's' who made it through. This is to be QSL'd to OK1XC.

20	PH	EI3HA
20	CW	EI3IO
20	CW	EI3IO
20	CW	EI4CF
17	PH	EI4CF
40	CW	EI5DR
20	PH	EI5GM
20	CW	EI6IZ
20	PH	EI9FBB
20	PH	EI9JF
20	PH	EI9JF
40	CW	EI9JF

CT1BWW, Marq, is heading back to Mozambique. He'll be operating from Maputo, the Capital city as C91BWW and then moving onto Bazaruto Island IOTA AF-072 as C98BWW from October 7th to 14th. As with all of Marq's operations, this is

to be QSL'd to his homecall.

The last week in October will see Monserrat QRV again when Bill, VP2MHX & Jan, VP2MQD will be here for an 8 day operation. Both operators will also enter as single band entries during the CQWW SSB contest weekend and will be QRV on all bands and modes before and after the contest. VP2MHX to be QSL'd direct only to W4WX and VP2MQD to be QSL'd to K4QD direct or via buro. If you miss this one, not to worry, as (BUMS) 'Members of the Buddipole Users on Monserrat', have already announced their plans on a DXpedition to here between January 29th and February 6th 2007. W3FF, W6HRP, WZ1P, KB9AVO, KC4VG & NE1RD, are all awaiting their individual calls and are all limited to bringing just 100 lbs of equipment! It will certainly be interesting to see how effective operating 'true portable style' can be. More info on this one in next issue.

One 'up and coming' is the expected trip to Cocos Keeling (VK9C) by Barry N0KV & Charlie W0YG. The expected dates are from October 30th to November 20th. Information on this one is a bit brief at the moment as the pair are still awaiting their callsigns. All their antennas are already on the island since Charlie's operation last year. They have acquired an additional 'Spiderbeam' for the higher bands and will be using the existing Force 12 verticals for the lower bands. The proposed QSL route for this one is direct to Charlie's homecall K0YG. Keep your fingers crossed that this one materialises.

A CW only operator, is heading to the Central African Republic later this year. W1DV Dave, will be on a work assignment in (CAR) for 4 weeks and intends to operate in his spare time. Callsign and QSL route to be released in time for next issue.

Gerd, DL0VOG will be back on the air as HK0GU, San Andreas & Providencia in November. Firstly, he'll be on November 9th to 14th from Isla Pirata, IOTA SA-040 signing HK0GU/1. However as this is still on the 'HK' side, it will only count as mainland Columbia towards DXCC purposes.

From November 15th to December 1st he will be on IOTA NA-049, Providencia Island and this does count as HK0 and will be acceptable towards credit. He will be QRV on all bands but concen-

trating mainly on CW & RTTY but some SSB too.

This one is QSL'd to his homecall.

A few up and coming special event callsigns are as follows :

AT6MYL is the special callsign from Mumbai, India, for the World wide YL meeting. This special event will be aired from October 15th to 19th only. QSL to Sarla, VU2SWS.

HA506NF (HA6NF) and HA501DAE (HA1DAE) will be special Hungarian callsigns commemorating the Hungarian Uprising of 50 years ago. These new prefixes to be QSL'd to their homecalls.

ZV100SD will also be aired for the month of October celebrating the flight of Brazilian Alberto Santos Dumont in Bagatelle, France. This was the first completely independent flight in history and took place on October 26th 1906. This will be QRV again on all bands and is routed to PS7AHR direct or via buro.

The following is a Press release from ARSI (Amateur radio Society of India). India's official IARU society received formal permission from Wireless Planning & Coordination Wing (WPC), India's Ministry of Communications and Information Technology Department of Telecommunications, to use the call VU7LD (Lakshadweep DXpedition). The permission is for a period of one month – from 1st December to 31st December 2006 says VU2GMN Gopal Madhavan, the president of ARSI and director of IARU region III.

The exact dates of operation and the team will be announced in a few days reported Sarla, VU2SWS ARSI's IARU liaison. VU7 – Lakshadweep ranks number 2 on the most wanted list and has not been QRV since 1989.

This is the second announced DXpedition to VU7.

The first was announced a few months ago by NIAR and is expected to take place between January 15th and 25th 2007. Members of ARSI have been working on their trip for several years under leadership of former president VU2RCR, Chandru.

The following operators have already been announced VU2GMN, VU2SWS, VU2NXM, VU2PAI, VU2IZO, VU3KKZ, VU3RSB, VU2TS, VU2SBJ & VU2UR. There is a possibility that

(Continued on page 8)

(Continued from page 7)

more operators maybe added to this group. As this major DXpedition is constantly being updated, I recommend to check out NIAR's official website <http://www.niar.org> for the latest information.

N4AA is appealing for all DXers to participate in this years annual 'most wanted survey'. The DX magazines most wanted survey is posted on the magazines web site http://www.dxpub.com/dx_survey2006.html.

Submitting your needed countries list is vital to keep an update database for all future DXpeditions highlighting the demands and needs of the DX community. As this is a US sponsored survey, it is important that there is a strong EU presence also, as this helps to give a more accurate continental demands list.

Now that the usual summertime doldrums have passed and the long evenings are falling rapidly upon us, it is a great time to turn on your rig and call CQ.

Generally, the bands are in good shape, no matter what your personal preferences might be, with quite a lot of activity and all bands opening at some stage during the day. An extract from my log over the past 2 months are as follows:

Using a Kenwood TS-850SAT, 400W into a TH-3 logged : 3XY9B, ZL2MAT, HS1NGR, AL7GA, JA6BZI, KH6IB, BV4FH, XW1A, FW8AA, OJ0LA, TU2/F5LDY, AP2DKH & 4U1UN all on 20m SSB.

15m netted VP2E, TR8CA, 5B4AIF, JE1LET, OD5NH & YN2N while using 100W into an IMAX 2000 Vertical logged VY5EED, T77M, WP4SK, 9K2HN, C5DXC, HI3TEJ, FM5AN, VP8LP, JA1WPX, V51AS, VP2V/AH6HY, TI8II & FY1FL on 17m SSB and same antenna worked YU6AO, PY2DY, D44BS, 9Y4NZ, 3XM6JR, T77C, ER1QQ, 7X4AN & ES1GE on 10m.

Using 400W into a 1/2 size G5RV logged 4X6YY, C5DXC, UN7BEW, LU1ECZ, ZL4IR, YV5SSB, KP2H, D44BS, TF3ZA, HZ1MD, 9K2HN, GJ5XW, MU0FAL, RA2FF, 5B4AIF, VK7GK OJ0LA & ZB3C on 40m.

Using 100W into a shortened dipole worked 5B4VEM, EA9LZ, LX9UN & EJ3HA/P on 80m SSB.

Nicky, EI9JF has been very busy lately working some excellent DX with his new antenna.

Using a Yaesu FT1000 Mk 5, 400W into

a 4 element SteppIR he has logged : HL1AV, R1ANF/P, 4S7EA, YP1W, KL7J, ZB2/HA3NU, OH0/SM0NJO, VP9/KG9N, HH0/PS7EB, 5R8GZ, A25VB, 8P6JD, HC2IL & S9SS all on 20m CW.

On 20m SSB he logged KH2E, KL1SE, VP2V/AH6HY, 3XY9B, KH6RZ, 3DA0TM, 9N7JO, 5G8SDS & TX5T. On 15m he netted FT5XP, TX5NK, TR8CA on SSB & on CW worked VP2E, TR8CA & OY1CT.

Moving onto 17m he logged VQ9LA, KH6RZ, 5W0DP, C94KF, VK9NS, V51AS, A25VB & TX5T while on SSB he worked VP9LP, 3XY9B OH0/SM0NJO, ZD7VC, & VP8LP.

On 10m he logged OY3QN, TU2/F5LDY, CE3SBQ & PY3KN and 12m netted HZ1IK, TX5NK, ZD7VC & VU2NKS all on SSB.

Using a 2 Element Yagi on 40m he worked TI4DJ, XE1XR, DT8A, JT800OK, OJ0LA, A22/JA4ATV & D2DX on CW while on SSB he logged D44BS, TT8PK, ZL4IR, YI9KY, OX3XR & 7X5JF.

On 30m he logged ST2A, VP5/K4ZGB, PC6IOTA, XX9TJS, DT8A, A25VB, 7P8JF, OD5NJ & ZS/DL9GMM.

Using just a wire antenna on 80M he worked YI9DXX, TK5IH, OJ0LA, ZC4LI, V51VV, TF3YH, VK6HD & PZ5RA all on CW while on SSB he netted JW5E & V55O.

Declan, EI9FVB has once again been busy scanning the bands, picking out quite a few unusual and special event calls.

Using an Icom IC-756 pro II into a MQ24SR beam he has logged DX stations A92GR, 3DA0TM, ZD7VC, A61M, EA9LZ, OA4/YT7RW, and special event stations DR5SOLAR, 4U1WB, GB4SNF (Signals National Force), SY2POL, 3Z20ZJP, YT150CS, SL8SUB (Submarine mobile), G4AKC/M (Bicycle mobile), LZ1900K & EE5KB.

IOTA stations included CU6X EU-175, OY/M0TJH/M EU-018, IB0/OM5AW EU-045, IV3CTW/P EU-130, ED7SPI EU-143, 9A6BRI/P EU-170 & CT6B EU-040. All these were on 20m SSB.

6m netted him 2 new ones on this band with 5B4AHY & 4X4DK and using a 1/2 size G5RV he logged 4O6DX, EA9LZ & OJ0LA on 40m.

His list of mobile contacts using a IC-706 MkII G into a Comet UHV-6 antenna includes TF3ZA, 4L4SR, 7X4AN, 4O3AB, ES15L, 9A7D & TA9F.

We would like to welcome **Bob,**

EI3GRB as a regular contributor to this column. Using a Kenwood TS-850S into an OCF dipole has logged VO1JA & VK6WC on 40m, CT3DL, K1LZ & W1FC on 80m.

20M was his busiest band working some nice DX including VE1/F5PAC NA-154, BA5TT, BV4FH, VE1XYZ, 4L1AN, 3V8SM, CU2JX, 5N8NDP & HSO/IK4MRH.

On 17m he logged PT7EB, C5DXC, LW2DFH, JH1OOC, JE1DNL, V51AS & KP2YL. All contacts were on SSB.

That's about all we have for this issue folks, don't forget to keep those log extracts coming in, the more we get, the better views we can see and we would like to see all the HF bands covered.

Over the winter months it would be nice to get some top band reports.

I also would like to highlight, that due to recent summer holidays, commitments & work duties, a few of our contributors have been unable to send in band reports. We look forward to the return of these for the next issue and over the coming months.

Until then, keep tuning and keep working the rare DX.

Vy 73 de Dave EI9FBB

Late News:

3B7 - The Five Star DXers Association (FSDXA, of 9M0C, D68C and 3B9C fame) has announced its next DXpedition, to St. Brandon (requested call 3B7C) to take place in September 2007.

This will be a major effort, with a target of more than 100,000 QSOs. There will be up to twelve stations on the air, many using amplifiers and monoband beams, 24 hours a day, for almost three weeks.

A multinational team is close to being complete, and 18 operators (9M6DXX, DK7YY, DL7AKC, EI5DI, G0OPB, G3BJ, G3IZD, G3NHL, G3NUG, G3SVL, G3XTT, G4KIU, G4TSH, K3NA, N6HC, SM5AQD, W3WL and WF5T) have already signed up to take part.

FSDXA is seeking contributions from sponsors to help defray the very significant logistics costs of this DXpedition. Read the full announcement with the details on how contribute at <http://www.3b7c.com/index.html> (website under construction).

ARRL 500 kHz Experiment in Organizational Phase

The project manager for the ARRL 500-kHz experiment, Fritz Raab, W1FR, says The 500 KC Experimental Group for Amateur Radio is still in the organizational stages but has already recorded its first two-way contact. The FCC's Office of Engineering and Technology on September 13 granted Part 5 experimental license WD2XSH to the ARRL on behalf of a group of radio amateurs interested in investigating the LF spectrum. The two-year authorization permits experimentation and research between 505 and 510 kHz (600 meters) using narrowband modes at power levels of up to 20w effective radiated power (ERP).

"It will probably be a free for all through October as guys get their stations on the air," Raab told ARRL Headquarters. "The Midwest stations will be limited to 505 to 508 kHz for the time being, and the rest can use 505 to 510 kHz." He said a couple of the WD2XSH participants got on the air the day after the license was issued, and several others activated the first week, generating a number of reception reports. "Many are for distances of about 300 miles, of course, but some are much longer," Raab told ARRL Headquarters. He reports that W0RPK in Iowa copied the WD2XSH/20 station in Oregon early on September 26 - a distance of 1500 miles. The first QSO took place September 21 between the stations in Tennessee and North Carolina - a distance of some 300 miles.

Raab eventually would like to see at least a secondary 600-meter Amateur Radio allocation from 495 to 510 kHz. He envisions eventual use of the spectrum to provide Amateur Radio emergency communication via groundwave.

Announcement of the license grant earlier this month brought a few requests from radio amateurs interested in joining the experimental group. Raab says there are no plans to expand the group's membership, however. He does invite reception reports of transmissions made by group members <<http://w5jgv.com/500kcreportform.htm>>.

For the time being, the WD2XSH group is only using CW. The ARRL Part 5 application had requested permission to use both CW and PSK31, but the license grant omitted the latter mode. Raab says he's working to secure permission to add PSK31 to the grant.

During October, the 21-station experimental group will develop a band plan that assigns frequencies for QRSS -- very slow speed CW -- as well as for CW beacons and for two-way communication, Raab said. WD2XSH participant Conrad Murray, WS4S (WD2XSH/11) reports he's transmitting a QRSS beacon on an irregular basis on 505.505 kHz from his Tennessee QTH.

News of the WD2XSH license grant opened another line of communication for Raab. "The announcement brought me a bunch of e-mails, and contact with someone I knew from college and hadn't seen since the 1970s," he said.

More information is on the 500kc Experimental Group for Amateur Radio Web site <<http://www.500kc.com/>>.

MRG Experimenter Radio Group

The MRG experimenter Radio Group VHF/UHF SSB Challenge 2006 was held on the 10th of September.

The main centre of activity on the day seems to have been from the south and north west, some contacts of 500km + achieved!

Closing date for logs was October 10th 2006.

If you were active on the day and did not submit a log, Joe EI3IX would still like to hear from you at ei2mrg@yahoo.com.

Trophies will be presented to the winners of the fixed and portable sections later in the year.

Special Event Station GB500KCS SOS 100 years old

On November 3rd 1906 at the International Wireless Telegraph Convention held in Berlin, the final agreement was signed by 27 countries.

This convention established 500kHz as a maritime radio frequency which subsequently became the international distress and calling frequency and remains so today in some parts of the world.

The convention states: "ships in distress shall use the following signal repeated at brief intervals"

To mark this centenary the Radio Officers' Association will be on air using the callsign GB500KCS which has been issued for three days from the 2nd November.

This special event will form the launch of the Radio Officers' Association campaign for 500kHz to be recognised internationally as a 'heritage' frequency. SOS came into common use on 1st July 1908 but some Marconi manned ships continued to use CQD often as well as SOS. The Titanic was not, as commonly supposed, the first ship to use SOS.

Friday 3rd November is the centenary of the signing of the Berlin International Wireless Telegraphy Convention agreement. It established 500kc/s as the maritime calling and distress frequency and SOS as the distress signal.

The Radio Officers' Association are launching their campaign to have 500kHz recognised as a heritage frequency with the callsign GB500KCS on 3rd November from the Lizard Wireless station, and on 4th November from the Poldhu Marconi Centre

In addition, on 2nd, 3rd and 4th November a special station will be activated by members of INORC with the callsign IY1SP/500KCS from La Spezia (Mount Parodi).

La Spezia is where Marconi did his first experiments with ships when he sent messages to Italian navy ships.

Multiband Parallel Dipole Antenna

Tony Breathnach, EI5EM

For many city-based operators HF antenna space is a problem. There are many compact commercial multiband vertical antennas on the market. Besides being expensive, these antennas can be a compromise, particularly on the lower frequency bands, where their effective length is very short in comparison to the ideal quarter wavelength. Therefore they are not very efficient and bandwidth is usually very narrow on the lower frequencies.

Lossy coils and traps are often used to achieve a reasonable 50 Ohm match. But remember, a 50 Ohm dummy load also presents a perfect match to the rig. However, how much DX will you work on a dummy load?

I am a great believer in wire dipoles. I would much rather erect the longest dipole possible in a small suburban garden and feed it with 300 Ohm twin feeder via an ATU for multiband HF coverage than spend money on a compromise commercial vertical. Remember that dipoles can have their ends dropping downwards and don't have to run fully in a horizontal line.

The formula for calculating a quarter wavelength antenna is 234 feet divided by the frequency. A half-wave dipole is obviously twice that length. For example, a quarter-wave vertical for 3.6 MHz would be 65 feet and a dipole 130. On 80 metres a quarter-wave vertical mounted at ground level would be more than twice as tall as the average suburban house and it needs groundplane wires as well!

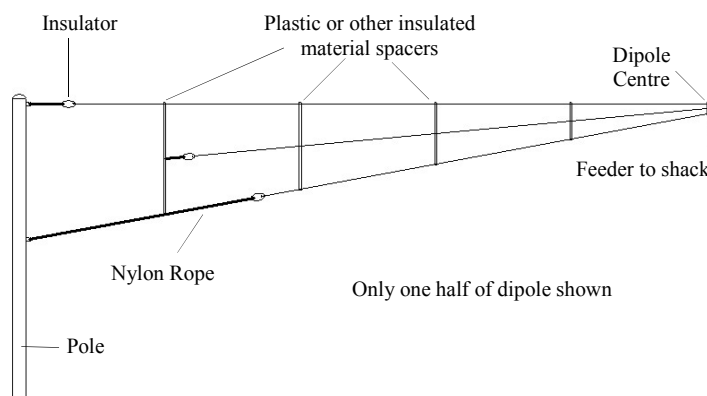
Now consider the lengths of some of the commercial verticals on the market claiming to cover up to 80 metres, and their limitations become obvious. Admittedly efficiency improves on the higher frequencies as the length approaches the ideal quarter wavelength.

Louis Varney's G5RV is the dipole of choice for many operators. The full-size version is 102 feet long and obviously the half size 51 feet. It too need not run horizontally for its full length as the ends can drop downwards. Therefore, a half-size G5RV could be accommodated in a length of less than 30 feet and would cover the amateur bands from 10 to 40 metres. The full-size covers 10 to 80 metres.

The G5RV was designed before the 12, 17 and 30 metre bands were allocated to amateurs following WARC 79. In his Antenna Handbook, Bill Orr, W6SAI, discusses in depth the performance of the G5RV (and many of its derivatives) on all of the HF bands. One of his major conclusions is that the G5RV performs poorly on 12, 15 and 30 metres. Strangely, it appears to perform well on 17 metres!

The 30 metre (10.1 MHz) band is my favourite, and as I have been unwittingly using a full-size G5RV for several years as my sole HF antenna, I decided to put Bill's conclusions to the test on this band in particular.

My initial intention was to construct a separate dipole for each of the three bands and erect each for a period of time and com-



pare it with the G5RV. Then I remembered reading an article in my 1974 ARRL Antenna Book about an antenna comprised of several separate dipoles in parallel, all fed by the same single feeder at a common centre.

I decided to kill three birds with the one stone and construct a version to cover the bands in question.

The principle of operation of this multiband antenna is that the rig will automatically select the appropriate resonant dipole at its operating frequency and deliver most of the RF power to it. The theory is that the other dipoles will have only minimal effect.

I calculated total dipole lengths for 10.12 MHz, 21.10 MHz and 24.90 MHz. The calculations were 46'3", 22'2" and 18'10" respectively. A dipole centre piece was fashioned from a small piece of Perspex, in which I drilled eight 11 mm holes in two rows of four to accommodate 10 mm bolts. A bolt was inserted into each hole. Two washers were fitted under the head and another under the nut. Each bolt is a connection point for a dipole or feeder wire.

All four bolts in each row were then interconnected with a short piece of wire. A few extra holes were drilled in the Perspex and the dipole and feeder wires threaded through them to take the strain before being held in place between the two washers by the tightened nut and bolt.

The longest dipole supports the next longest which hangs from it and it in turn supports the shortest. I used some short plastic strips to separate and support the two lower dipoles from. To prevent the array twisting and tangling in the breeze, the plastic strips at the ends of the two lower dipoles were tied or stayed off with plastic string to points near the ground.

I fed the antenna with 72 Ohm twin feeder. Besides being a good match, this is light and prevents sagging at the centre. The feeder runs all the way into my shack. In the shack I used a home-brew 1:1 balun. From this I ran a short length of 50 Ohm co-ax to my K2's automatic ATU. I went through the auto ATU because it has two antenna inputs which can be selected from the K2's front panel.

(Continued on page 11)

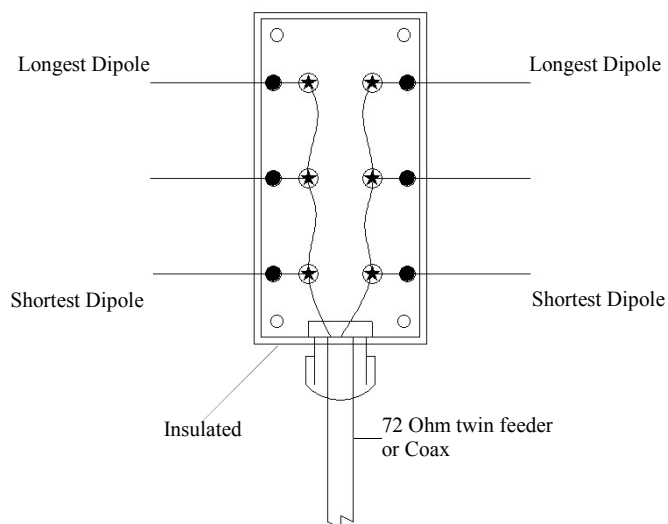
(Continued from page 10)

Of course 50 Ohm co-ax could have been used from the antenna and then a balun would not have been needed. However, as this is a balanced system, I prefer to use a balun between the antenna feeder and the unbalanced input of the rig or ATU.

The G5RV was already connected to the other ATU input socket and I was ready to compare the two antennas. It was around 2100 UTC on a June Saturday evening and 30 metres seemed lively on the G5RV. I switched over to the triband dipole and the sound level dropped giving an impression that reception was not as good.

I tuned around until I found a fairly weak station calling CQ and then switched back to the G5RV. The sound level rose, but I couldn't hear the calling station at all. To make sure that he hadn't stopped calling, I switched back to the triband dipole and there he was clearly audible and with a much quieter background noise level.

I moved up the band and started calling CQ on the triband dipole. A W8 answered with a 569 report for me. I gave him a



589 and asked him to standby while I changed antennas. I was amazed when the respective reports dropped to 549 and 579 on the G5RV.

EI is fairly rare on 30, and as soon as I finished the QSO several other US stations called me. I conducted several similar blind comparison tests and the triband dipole came up trumps by anything from one to three S points in each direction every time. It seems Bill Orr was correct!.

At about 0300 UTC I apologised to the pileup for going QRT. I was tired and had filled up over two pages of the logbook. I had worked stations all across from Labrador to Arizona and almost every station said that I was their first EI on the band. For weeks afterwards I received many QSL cards direct. I expect more via the Bureau.

I have had limited opportunities to carry out comparisons on 15 metres. Preliminary conclusions are similar, but I need to carry out more tests to arrive at a more definitive conclusion. I have not had an opportunity to compare both antennas on 12 metres

yet, as it hasn't been very active when I have been QRV. However, I am looking forward to having an opportunity before too long.

The multiband dipole described here can be cut for any combination or any number of bands. The two big advantages it has are that it only needs one feeder and secondly, the resonant dipole is automatically selected for the band in use.

With adjustment of the individual dipole lengths, the SWR can be optimised for each band. However, the more dipoles that are attached the more fiddly and time-consuming this becomes, as each adjustment can have a knock-on effect on the other dipoles.

However, I must admit that I didn't spend any time doing this. I just calculated and cut the lengths to the formula and let the K2's automatic ATU take care of any minor mismatches. I am just very satisfied with my findings and results on my favourite 30-metre band

A G5RV along with the triband antenna described above (12, 15 and 30 metres) could be a good combination for efficient coverage of all HF bands from 10 to 80 metres in a suburban situation.

73 es 72 de Tony (EI5EM)

ei5em@eircom.net
www.qsl.net/ei5em

Shannon Basin Radio Club Sprint Challenge 2006

The Shannon Basin Radio Club will again hold their annual challenge on Sunday November the 5th from 1400 to 1800.

Trophies will be presented to the highest scorer on SSB, the highest scorer on CW and the highest score by a Shortwave Listener.

Bands that can be used are 1.8, 3.5, 7, 14, 21 and 28 MHz. Please confine activity to the IARU contest preferred band segments.

Scoring is the same as SD logging type 8, SSB Field Day. QSOs with station in Region 1 count 2 points, contacts with mobile or portable station count 5 points and all other count 3 points.

Country multipliers can be claimed on each band. The exchange is RS/T and serial number.

Logs to be sent to :
Noel Mulvihill EI6HW,
Hillquarter, Coosan, Athlone, Co. Westmeath.
or email nfmulvihill@eircom.net
not later than December 20th 2006.

The challenge is open to all experimenters and shortwave listeners who must operate in accordance with the terms of their licence.

It is for single operators only. No assistance is permitted.

Outgoing QSL Bureau

The outgoing bureau still receives cards for countries that do not have a QSL bureau. This creates unnecessary work for Tony EI8JK, all because you do not take the trouble to establish the proper QSL route for your card.

One envelope recently arrived at the outgoing bureau and all the cards in it were for countries with no bureau!

A lot of DX stations only send cards direct through a manager and care should be taken at the time of the QSO to get the route from the other station. It is nearly as important to listen for the QSL information as it to work the DX station.

Otherwise, you will definitely need access to the web to figure out the route and there often can be conflicting instructions on different sites.

Always mail your cards directly to the Outgoing Manager, Tony Baldwin EI8JK, Rathlin, Kilcrohane, Co. Cork.

Cards mailed to P.O. Box 462 in Dublin will almost certainly be delayed.

It is not fair to expect the Society to pay the postage again to get your package to West Cork.

A useful web site for finding QSL managers of stations that you worked and forgot to ask, is <http://www.dxlabsuite.com/pathfinder>.

This gives you access to QRZ.com and all the major callsign and QSL Manager lookup sites on one screen.

If all else fails, then send an e-mail to our HF correspondent, Dave EI9FBB and he will definitely have the necessary information.

Please check the list below before you mail cards to the outgoing bureau.

Countries with no QSL Bureau

A3	Tonga	V4	St Kitts Nevis
A51	Bhutan	V6	Micronesia
A6	UAE	VP2E	Anguilla
C21	Nauru	XU	Campuchea
CN	Morocco	XW	Laos
D2	Angola	XZ	Mynamar
D4	Cape Verde	YA	Afghanistan
E3	Eritrea	ZA	Albania
HK	Colombia	ZD7	St Helena
HM	North Korea	ZD9	Tristan da Cunha
HZ	Saudi Arabia	3B	Mauritius
J5	Guinea-Bissau	3W	Vietnam
J6	St Lucia	3X	Guinea
J8	St Vincent	4J	Azerbaijan
P2	Papua N Guinea	5A	Libya
PZ	Suriname	5R	Madagascar
S7	Seychelles	5T	Mauritania
S9	Sao Tome	5U	Nigeria
ST	Sudan	5V	Togo
SU	Egypt	7O	Yemen
T2	Tuvalu	7P	Lesotho
T3	Kiribati	7Q7	Malawi
T5	Somalia	8Q	Maldives
TJ	Cameroon	9N	Nepal
TL	C African Rep	9Q	Zaire
TN8	Congo	9U	Burundi
TT8	Chad	9X	Rwanda
TY	Benin	9Y	Trinidad & Tobago
UK	Uzbekistan		

Jamboree On The Air

The 49th JOTA took place over the weekend of October 21/22nd.

Each year over 500,000 Scouts and Guides from all over the world participate in this event where Scouting experiences are shared and ideas exchanged thus contributing to the world brotherhood of Scouting.

Scouting Ireland's stations planned for the weekend are:

EI1SI - 2nd Kerry Sea Scouts operating from Fenit,

EI3SI - operating from Scout Headquarters, Larch Hill, Dublin,

EI4SI - Bayside Scouts Radio Group operating from the Martello Tower, Howth,

EI5SI - operating from the Scout Centre in Mount Melleray,

EI9SI - 66th Dublin operating from the Scout Den in Clontarf,

EI4WSG - 4th Wicklow operating from the Scout Den in Wicklow, and

MN0AKU - 4th Tyrone operating from Bready, Strabane.

Theory Classes

Ballinasloe

Theory classes for the Experimenters Radio Licence will be starting Shortly in Garbally Collage, Ballinasloe and interested parties should contact Noel EI6HW by e-mail at "nfmulvihill at eircom dot net".

Waterford

There are now seventeen participants on the South Eastern Amateur Radio Group Theory Classes, which are to space restrictions this class is now full and the group cannot take on any new candidates for this course.

South Dublin Radio Club

Theory classes are ongoing at the South Dublin Radio Club. Just call along any Tuesday night to the club meeting from 8.00 pm to 10.00 pm in the Ballyroan Community Centre, Marian Road, Rathfarnham, Dublin.

For information contact Michael EI2GKB on 087-2481970

Cork

Classes will be organised subject to sufficient demand.

Contact Dave Moore EI4BZ on 086-6290574 or ei4bz@eircom.net

Kerry Amateur Radio Group

EI1KARG - EI7KYR

The club's annual general meeting was held on Saturday, October 7th at the Muckross House Coffee shop.

Officers for the 2006-2007 elected at the AGM were:

Chairman & Treasurer: Ron Hahn, EI2JP
 Vice Chairman: John Costello, EI9ESB
 Secretary: Billy O'Connor, EI7CQB

Joe O'Regan, EI4JU recently received his Radio Experimenter's license after successfully sitting the Radio Experimenters examination in Dublin. Joe has been a regular attendee to club events in recent months and we look forward to hearing him on the bands.

The most recent Field Day was scheduled for Saturday, October 21st, 2006 at Rossbeigh Strand, Glenties, Co. Kerry. Start time was 0900 hrs on the east (back) side of the strand. EI2JP organised the event.

The next monthly club meeting is on Saturday, 4 November 2006 in the coffee shop at Muckross House, Killarney National Park, starting at 10am. Muckross House is located on the main N71 Killarney to Kenmare road (known locally as the Muckross Road) 6km (3.6mi) south of Killarney town. The only vehicular entrance is located approximately 1km beyond the Muckross Park Hotel on the right.

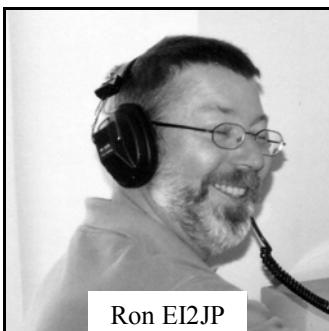
The next 6 metre SSB net is on Monday, 6 November 2006 on 50.135 MHz (horizontal polarisation) at 2100 local time. In recent nets, stations from all over EI and abroad have checked in. If you're looking for a new county or that rare square, this is the place to find it!

The club is planning a combined trip to the Valentia Observatory and the Valentia Coastal Radio Station on Saturday, 18 November, 2006. Car pools are being arranged from the Killarney and Castleisland areas and we will be having lunch in the Ring of Kerry Hotel in Cahirciveen.

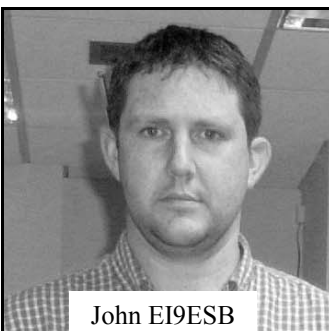
Interested parties can register their interest with either EI2JP or EI9JO before Saturday, 4 November 2006 so that we can get a firm head count.

Spaces are limited to 12 people so if interest exceeds supply we may organise a second follow-up trip in early December.

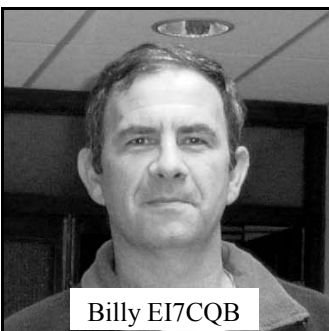
Club membership is a pre-requisite (pensioners and the unwaged excepted) for this event.



Ron EI2JP



John EI9ESB



Billy EI7CQB

EI7KYR 70cm Repeater

Input: 438.575MHz (+7.6MHz shift)
 Output: 430.975Mhz
 Access: 103.5hz CTCSS ('PL')
 Timeout: 4 minutes
 Location: Muckross, Killarney,
 Co. Kerry: Grid Ref. IO52GA
 Elevation: 93m ASL
 Equipment: Motorola LCS-2000

Receiver and Transmitter
 Decibel Products DB-4076W Duplexer
 Diamond X-510 Omni Aerial
 Pacific Research RI-300 Controller

Installed: October, 2005
 Fully Operational March, 2006
 Status: On Line
 Sponsor: EI2JP
 Owner: Kerry Amateur Radio Group

9H1IA 10 Meter CW Beacon

Locator: JM75fv
 20 Words Per Minute -
 Repeating Every 10 Seconds
 Frequency - 28.174 MHz

This CW Beacon went into active operation at 00:00:01 Zulu on the 15th August 2006 and is transmitting from a Yaesu FT-857D running at a power of 7.5 Watts / 8.75 dBW into a specifically tuned Antron 99 omnidirectional vertical antenna at 129 Meters ASL measured at the base of the antenna.

The Location of the beacon is the town of Mosta on the main Island of Malta.

Reference - 35° 54' 46" N / 14° 25' 41" E
 Frequency : 28.174000 MHz. Mode : A1

The system is powered by a 100 Watt Photovoltaic Monocrystalline panel with a 10 Amp Charge Controller charging a bank of two 75AH deep cycle sealed Gel batteries.

The batteries are connected to produce 150AH 12 Volts DC to drive a 3Kw Inverter to provide power for other radio related equipment.

The web site is at:
<http://www.9h1ia.zoomshare.com/>

Emergency Centre of Activity Frequencies

The National Co-ordinator would like to remind EI amateurs of the **Emergency Centre of Activity Frequencies** adopted by the IARU Region 1 General Conference 2005.

These are not channels for exclusive emergency only use, but are preferred, centre frequencies for such activities. The centre frequencies are as follows.

Global Centre of Activity per band:

15m 21,360 kHz
 17m 18,160 kHz
 20m 14,300 kHz

Region 1 Centre of Activity per band:

40m 7,060 kHz
 80m 3,760 kHz

Kenwood TM-D700

By John Ronan EI7IG



Introduction

Although often regarded as an ordinary, if expensive, dualband transceiver, the Kenwood TM-D700 is quite a flexible and powerful radio and I have found lots of information on web sites and on mailing lists for getting more out of it, especially for APRS.

Normally, I have APRS running on Band A (left side) of the D700 and I scan some frequencies of interest to me on Band B (right side), and a simple change to the soft function buttons in the radio's menus also allows me to access common APRS functions much more quickly (more about this below).

Physically, the radio is mounted in the boot of my car, with an "extension kit" I have made up that allows me to have the microphone and front panel section of the radio in the front of the car with me: the display sits nicely in front of the ashtray. While I would prefer to have it mounted higher in my field of view, the car (an Opel Astra) has too many curved surfaces on the dash for secure mounting.

This article is based heavily on a similar article by A.J. Farmer, AJ3U[1]

Setting Mode 3 for Function Keys

First, though, don't you just hate having to hold down the F key for one second to access the APRS functions? Well, there is a better way! Do yourself a favour and enable "Mode 3" for the soft function keys - you can find it on menu 1-1-5. There are three modes for the soft function buttons: mode 3 allows you to access common APRS functions with just a single button press.

Voice Alert

Everyone with a D700 should be using Bob Bruninga's "Voice Alert" concept. On the A side of the radio, don't just set it to 144.800 and turn the volume down. Instead, go one step further and make it 144.800 with CTCSS of 136.5Hz and leave the volume turned up.

Since CTCSS is enabled, you won't hear

anything from your speaker (all digi's and home stations transmit without a PL tone). However, every time you transmit a packet, it will have an encoded tone of 136.5Hz so anyone else running the same "Voice Alert" setup within your simplex range will hear your packet burst. This gives them a heads up that another APRS mobile user is within simplex range - think of it as an APRS radar detector!

Once you hear their burst, you can then either send them an APRS message to tell them to go over to S18 or you can give a quick voice message on your Band A side (yes, the APRS side on 144.800) saying just "VoiceAlert - go to S18". The other operator running VoiceAlert will hear you on the A side of their radio. The important part is to use 144.800 only to set up the contact; don't linger there and block out the frequency. Unfortunately, I have made no contacts this way while on long trips as of yet, which is why I'm now encouraging you to use it too!

Of course, this setup doesn't just apply to APRS users: anyone with a mobile rig in the car can monitor 144.800 with a 136.5 CTCSS tone, and will instantly know (by hearing those annoying tones) that there is someone else within simplex range.

Path Setting

I have my path set to "WIDE1-1,WIDE2-1". This follows the APRS New Paradigm [3] - the same concepts still apply even though I am using a different frequency.

"WIDE1-1" can be roughly translated to - "could any digipeater please forward on my packets"

"WIDE2-1" can be roughly translated to - "could any 'high' digipeater please forward on my packets "

The "WIDE1-1" portion takes advantage of any home "RELAY" stations that may be available in the area. We are slowly seeing more of these appear as we find new locations where we can put them and other experimenters become interested in APRS.

The "WIDE2-1" portion will be picked up by high digis in the area and will give your packet an additional hop. This will give your station a maximum of 2 hops in all directions, which is good enough to reach an Igate, and also to be visible over most of the country.

Bulletins

Bulletins are used quite a lot in the USA to receive weather warnings from the National Weather Service (NWS)[4][5]. You can get these by including "NWS*" in your Message Groups (menu 3-P). Personally, I have my Message Groups set to "ALL,QST,CQ,BLN*", which enables me to receive any "CQ" type messages, as well as APRS Bulletins. In order to inform visitors to this country of the settings in use for Voice Alert and for APRS path settings, I have two automated bulletins (repeated every 8 hours or so) sending out this information. Bulletins are quite useful for any event where the same information needs to be transmitted to many stations simultaneously,

Traffic Mode - PM2

If I come across a traffic jam, after I stop the car, with three button presses I have informed any other APRS user of the location and time of the traffic jam and they can take steps to avoid it.

My PM2 setup is quite simple. I have my callsign set to TRAFIC (with my real callsign in the status field), I have beaconing set to 'manual' so that I cannot automatically send these packets (or if I forget to switch off the radio, that it doesn't continue to bombard the network with incorrect data). So I have to manually send a beacon packet. I have the APRS

(Continued on page 15)

(Continued from page 14)

symbol set to be an 'eye' icon which resembles and eye icon when displayed on most APRS software. Its chosen purely because it is big and will attract attention.

ISS Packet Mode - PM3

Would you like to work other APRS users through the ISS while mobile? Too difficult to change your path, the frequency, etc, you say? But you can make ISS APRS operations easy by storing the settings in a dedicated PM (Programmable Memory).

My PM3 setup for working the ISS when it is in packet mode is a split operation with APRS Data being received on Band A (left side) and transmitted on Band B (right side).

By setting this up as a separate PM, your D700 is ready to operate in this mode with two button presses without affecting your everyday setup.

In this mode, you should set your SSID to something different (I use "EI7IG-6") so that you can easily find it on FindU [6].

Set your path (menu 3-B) to "ARISS, SGATE,WIDE2-2" and your beacon rate (menu 3-D) to 0.5, 1, or 2. I also set the Message group (menu 3-P) to "*" so that I see everyone's messages. Once configured this way, operation is basically hands off. You will beacon your position at a reasonable rate for a satellite pass, and see everything that is going on with minimal interaction.

Hint: In your "everyday", PM OFF setup, keep 145.800 as one of your memory channels and keep it in your scan list. If you are driving along and all of a sudden hear packet bursts on this frequency, then the ISS is overhead! Then, you just switch to your ISS Packet PM and work other stations hundreds or thousands of miles away!

You can set up a similar PM (I use PM4) for ISS voice comms. The general setup is the same as for APRS, but turn off the TNC and set Band A to 144.990 for the voice uplink. If you hear voice on 145.800, switch to this PM instead and talk to an astronaut or cosmonaut! When the pass is over, just hit "PM OFF" to go back to your standard setup.

Enabling your D700 as a Mobile Sat-Gate

I have my PM5 set up as what AJ calls his "Mobile SatGate". Whenever I park my car, instead of turning the D700 off I put it on PM5, in order to assist other users with APRS satellite operations. In this mode, the D700 receives APRS packets from ISS and PCSAT and digipeats them to 144.800 where they can be picked up by terrestrial SatGates for delivery to the APRS-IS.

The terrestrial APRS frequency (144.800 in Europe) is set on Band A (left side). I enable CTCSS with a PL of 136.5Hz, so it will mute the speaker without me having to worry about touching the volume control. I also set this band to medium ("M") power in order not to run my battery down! For the same reason, the beacon rate is set to 30 minutes, and the Dimmer is set to the lowest level.

Side B (right side) is set to the ISS downlink 145.800. You can set this with either a memory channel or with the VFO. Set menu 3-I to A:TX B:RX. "UIDIGI" is enabled (menu 3-K) which turns the D700 into a digipeater (see below for more details about the UIDIGI mode). When the ISS makes a pass overhead, packets are received on Band B and digipeated over to Band A.

This takes care of ISS, but how can you get it to simultaneously monitor for PCSAT (NO-44) when it is on 145.825? AJ's trick is to set the Call channel to 145.825 and then hold down the Call button (top left) to enable Call Scan. The D700 scans between 145.80 and 145.825 and as it's a very fast scan it catches packets from both satellites!

Another thing you want to do is set your Message Groups to "*" (menu 3-P) so that you receive all messages. When you come back to your vehicle, you will know that a satellite pass has occurred because you will see all of the messages queued from the pass. You can also check the station list. If the majority of D700 users did this, it would dramatically increase the IGate coverage for APRS satellite users and could free up dedicated SatGate stations to move their monitoring to other satellites such as the PCSAT2 9.6k downlink. By setting this as a separate

PM, it takes only two button pushes to put the D700 in this mode, and it won't affect your normal everyday operating PM: When you want to go back to normal operations it is just two key presses - "PM" "OFF". Quick and easy. So put those idle D700's to work!

UIDIGI configuration details for Mobile SatGate operations

To use the D700 as a mobile SatGate, enable UIDIGI (menu 3-K). Set "UIDIGI digipeating path" (menu 3-L) to "SGATE, WIDE, RELAY". As long as an APRS satellite user includes SGATE as part of their path after the satellite digi, then they will be able to take advantage of this type of setup. A check of stations on FindU reveals that about 50% of users do this. AJ also noticed that some stations use WIDE and RELAY after the satellite part of the path, so that is why these are included.

The ideal path for an ISS digi user would be "ARISS,SGATE,WIDE2-2".

This packet would then be digi'd by the ISS, then picked up by a D700 SatGate, and digi'd onto 144.800 with the remaining path of WIDE2-2 which just about guarantees delivery to an IGate.

Conclusion:

The D700 is a very versatile and often under-used radio. It gets a bad reputation for being "a very expensive dualbander". It is in fact, much much more than that, as I hope you can see from this.

[1] "Kenwood TM-D700 - Tips and Tricks by AJ3U", <http://www.aj3u.com/aprs/tm-d700.php>,

[2] I cannot find a definitive reason why 136.5 was chosen by anyone. In theory any tone could be used, as long as everyone uses the same.

[3] "Fixing the 144.39 APRS Network, the New n-N Paradigm", <http://eng.usna.navy.mil/~bruninga/aprs/fix14439.html>

[4] "Proposed NWS Protocol for APRS", <http://collierem.org/nwsproto.htm>

[5] "APRS Multiline Protocol", http://home.earthlink.net/~kg5qd/APRS_Multiline_Protocol.html

[6] FindU, <http://www.findu.com>

EI's at Friedrichshafen



Photo taken at the Ballooning & Amateur Radio Club of Ireland (BARC) stand at this years Friedrichshafen Hamfest:

Left to right: Sean Linehan EI7CV (BARC); Aidan Murphy EI5HW (BARC), Sean Carvin EI2CR; Willie Long EI6AI; Michael Murphy EI5GG; Pat Fitzpatrick EI2HX; Finbarr Buckley EI1CS (IRTS President). Dave Deane EI9FBB Missing from the photo is Gerry Birkhead EI9DZ.

Results - SP-DX - C 2006

	QSOs	Points	Mults	Score
SO 20m				
1. EI9HX	275	825	16	13,200
2. EI/SP9UUC	107	321	14	4,494
SOAB CW LP				
1 EI6DX	369	1,107	58	64,206
2 EI9ES	107	321	42	13,482
SOAB CW HP				
1 EI/SP3SUX	116	348	33	11,484
SOAB Phone LP				
1 EI4JT	91	273	16	4,368
SO TB Mixed				
1 EI5JQ	192	576	30	17,280
SO AB Mixed LP				
1 EI4CF	391	1,173	54	63,342

Thanks EI9JN

Mayo Radio Experimenters Network

John McAndrew EI3JM, has been elected as new Chairperson of the Mayo Radio Experimenters Network.

He replaces Jimmy Kelly EI2GCB who retired under the three-year rule. John was previously Treasurer of the group and is their fourth Chairperson.

Ian Mounsey EI3GXB is the new Secretary and the new PRO is Terry Ebdon EI9IW, who won the Wishing Well Shield for his services to the club.

Outgoing chairperson Jimmy Kelly was elected Treasurer and won the prestigious Conor Shield.

Padraic Baynes EI9JA, was the unanimous choice as Rally Director, and Mike Clarke EI3IG remains as QSL Manager.

The club will hold their annual rally in the Belmont Hotel, Knock on Sunday November the 26th.

Bon Heil K9EID and Derek Peyton EI7FM



When Derek Peyton EI7FM of South Dublin Radio Club called to the Waters & Stanton Stand at the recent Leicester Radio Club Show in Donington Park to buy some Heil accessories for his shack he was greeted by none other than the man himself, Bob Heil K9EID.

Bob introduced Derek to his wife, Sarah who was also on the stand.

Bob was over from the U.S. representing his company, Heil Sound whose famous headsets, mikes etc are legendary.

He was also lecturing at the Show on "Increasing the Power of your Transmitter"

Derek has visited the Leicester Show over many years (also back when it was at the Granby Hall in Leicester City) and says Donington Park continues a great tradition with a large range of stands, demos, bring and buy, flea market, lectures etc.

The Exhibition Hall is very large with plenty of space to move around and this year free tickets were available to all for admission to the famous Grand Prix Museum which adjoins the Hall at Donington.

If you had time, you could also pop into the motor-racing circuit next door where Renault Formula cars were roaring around.

The Leicester Show is easy to get to, as East Midlands Airport is only a field or two away!

You can also bomb up the motorway from the ferries which terminate at Liverpool from Dublin.

The show next year is on the second week in September and is well worth the trip.

AREN News

All AREN members Nationwide should by now have been contacted by phone in order to ensure that their contact details on the database are up to date.

In addition newly signed up members will be contacted to update the database regarding their equipment capabilities.

Training

The on-air member training has commenced and will be held on the 3rd Wednesday each month.

Cork Rally

The AREN stand at the recent Cork Rally was well received with plenty of interest in the technical and operational aspects of the Service. Five new members were welcomed on board.

This is a good time of the year for any interested experimenters to join AREN. Contact details are on the website www.aren.ie or alternatively send an email to ei4jn@eircom.net

Poldhu Beacon on 1960kHz

A group of radio amateurs is planning to explore how Guglielmo Marconi was able to copy a radio signal sent from Poldhu in Cornwall to Newfoundland in Canada in December 1901.

This was the first time that a radio transmission had been copied across the Atlantic but there is still some confusion over how the radio maestro managed to do it, especially as there was a solar minimum at the time.

Now, the Poldhu Amateur Radio Club in the UK and the Marconi Radio Club in Canada are teaming up to re-enact the legendary transmission. They are hoping that the experiment will shed new light on this landmark event in radio history. They have decided to carry out the experiment now because the solar conditions this December should be similar to when Marconi made his famous reception.

From around 1 November this year to February 2007, the Poldhu Amateur Radio Club will use a 160m beacon – GB3SSS – to make regular two-minute transmissions on 1,960kHz. Radio amateurs in Newfoundland will then aim to copy and analyse the transmissions. The 160m amateur band is being used for the experiment – rather than 800 and 900kHz, as used by Marconi – because the latter are now part of a very crowded part of the radio spectrum.

2006 VHF/UHF Squares Table

Callsign	50 MHz	70 MHz	144 MHz	432 MHz	1296 MHz	Totals
EI5FK	238	10	80	24	0	352
EI2JD	275	0	23	0	0	298
EI3IO	202	33	21	1	0	257
EI7IX	139	23	5	0	0	167
EI9FVB	124	0	0	0	0	124
EI3GRB	91	0	21	0	0	112
EI8JK	22	0	37	0	0	59
EI3IX	41	0	10	1	0	52
EI4BZ	0	0	13	3	0	16
EI7FAB	0	1	7	2	0	10

Submissions to VHF Manager Joe Fadden EI3IX at
joe-fadden@yahoo.com

Radio Jammer Jack Gerritsen gets seven years plus fines

It was a day a lot of radio amateurs in Southern California had been anticipating for a long time. On September 18, US District Court Judge R. Gary Klausner sentenced convicted radio jammer Jack Gerritsen, now 70, to seven years imprisonment and imposed \$15,225 in fines on six counts -- one a felony -- that included transmitting without a license and wilful and malicious interference with radio transmissions. Before sentencing, Gerritsen apologized to the federal government, the FCC and the local Amateur Radio community, which had endured the brunt of Gerritsen's on-air tirades and out right jamming. "I'm sorry, and I apologize to everyone here," Gerritsen told those in the courtroom.

Gerritsen's contrition did nothing to convince Klausner toward leniency. The judge berated Gerritsen as a repeat offender and said he believed Gerritsen would continue to commit similar offences. The sentence even exceeded US District Attorney Lamar Baker's recommended 46 months incarceration.

In addition to the prison time, Klausner fined Gerritsen \$225, payable immediately, and an additional \$15,000 to be paid through the Probation Department. Klausner tacked on two years' supervised probation and recommended Gerritsen remain in custody in Southern California during that period.

Klausner further ordered Gerritsen to participate in a substance abuse program at his own expense. He told Gerritsen he could not use any identification, including his previous Amateur Radio call sign KG6IRO, other than his real name when identifying himself, and he told Gerritsen he could not own, possess or use any radio transmitting equipment.

The FCC had been investigating complaints of illegal radio transmissions linked to Gerritsen for four years. According to court documents, the FCC investigation revealed that Gerritsen transmitted both pre-recorded messages and real-time harassment and profanity for hours at a time, often targeting local Amateur Radio repeater systems and precluding their use by licensed operators.

Following trial last December, Gerritsen was found guilty of causing malicious interference with a communications system operated by the United States -- a felony. The court also found him guilty of two misdemeanour counts of wilful or malicious interference with radio communications and three misdemeanour counts of transmitting radio signals without a license. Gerritsen has been in custody since his conviction.

The FCC has already levied \$52,000 in fines on Gerritsen for violating its rules and the Communications Act.

From the ARRL Bulletin - Sept 19th

Thanks to Ted GD4HOX/EI3ED

EI Results CQWW SSB 2005

<i>Band</i>	<i>Call</i>	<i>Score</i>	<i>QSOs</i>	<i>Zones</i>	<i>DXCC</i>
Multi Single	EI7M	8,125,830	6,277	139	539
Multi Single	EI9E	1,130,936	1,515	81	298
All	EI4DW	62,133	193	43	106
All (Low Pwr)	EI7CC	269,124	634	49	197
All (Low Pwr)	EI6FE	164,483	459	47	162
All (Low Pwr)	EI5FQB	24,000	165	30	70
All (Low Pwr)	EI5JP	23,108	146	28	81
All (Low Pwr)	EI7JR	10,981	118	21	58
80m (Low Pwr)	EI7JN	4,845	151	8	4
160m	EI6JK	5,184	112	6	42

Check Log received from EI7GY

CQWW SSB EI Records

(Up to and Including 2005)

	<i>Callsign</i>	<i>Score</i>	<i>QSOs</i>	<i>Zones</i>	<i>DXCC</i>	<i>Year</i>
High Power						
All	EI8IR	3,325,350	3,508	112	413	2003
10	EI3JE	692,958	2,155	34	113	2002
15	EI8GS	506,850	1,808	33	122	2002
20	EI2CN	605,914	2,080	35	107	1984
40	EI5GM	146,475	1,041	20	85	2003
80	EI8IR	159,965	1,203	21	86	2002
160	EI6JK	5,184	112	6	42	2005

Low Power

LAll	EI7GL	700,006	1,164	77	312	2000
L10	EI4DW	279,070	1,173	23	95	2000
L15	EI6FR	392,657	1,451	33	124	2000
L20	EI8IC	230,184	1,191	31	108	2001
L40	EI6JK	31,968	383	13	61	2004
L80	EI7JN	4,845	151	8	4	2005
L160	EI7IU	5,989	147	6	35	1998

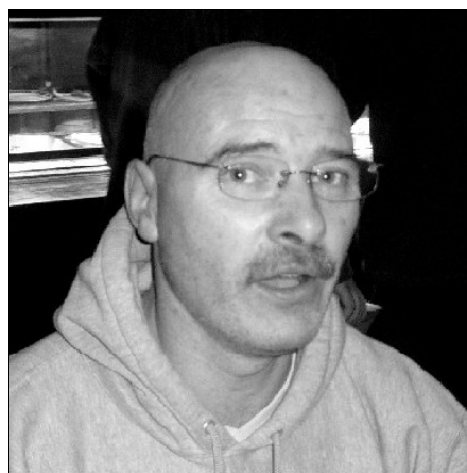
Assisted (Packet)

A All	EI8IR	2,977,871	3,005	123	410	2000
A 10	EI4DW	472,512	1,516	29	109	2001
A 15	EI6FR	203,312	769	27	104	1997
A 20	EI2GX	204,276	1,017	27	89	1997
A40	No Entry					
A80	No Entry					
A160	No Entry					
MS	EI7M	9,563,686	6,586	153	605	2001
MM	No Entry					

CQWW 2005 EI Record Breakers



Mark Condon EI6JK
New 160m SSB High Power Record



Tony Byrne EI7JN
New 80m SSB Low Power Record

The CQWW CW and SSB contests in 2005 once again had good participation from EI.

Three new EI records were set, one on CW and two on SSB.

Mark EI6JK added the 160m high power EI record to the one he already held for low power SSB on 40m.

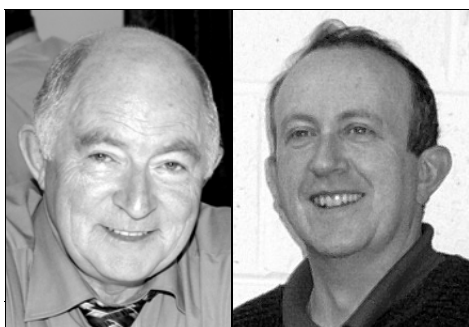
Tony EI7JN, a newcomer to this contest set a new mark for 80m low power SSB. Congratulations to both Dublin operators.

Down at EI7M the crew was augmented for the CW event by Latvian visitors Girts YL2KL and Kas YL1ZF who were warming up for their trip to Brazil in July for the World Radio Team Championships.

They set a new EI mark while finishing second in Europe.

On SSB, EI7M also had a great result, finishing second in Europe as well.

CQWW 2005 EI Record Breakers



East Cork Group EI7M
New EI CW Multi Single Record
2nd Place Europe
 Jerry EI6BT; Mannix EI5HB;
 Girts YL2KL; Brendan EI0CZ;
 Kas YL1ZF; Dave EI4BZ.
 Neil EI3JE

CQWW SSB 2006
October 27/28th

CQWW CW 2006
November 25/26th

EI Results CQWW CW 2005

<i>Band</i>	<i>Call</i>	<i>Score</i>	<i>QSOs</i>	<i>Zones</i>	<i>DXCC</i>
Multi Single	EI7M	7,874,332	6230	152	579
All	EI2JD	78,991	280	39	128
All	EI4DW	45,024	157	42	125
All (Low Pwr)	EI7CC	148,163	403	53	176
All (Low Pwr)	EI7JK	27,132	195	29	85
All (Low Pwr)	EI5JP	19,467	160	28	75
All (Low Pwr)	EI9ES	7,178	94	16	58
15m (Low Pwr)	EI4CF	63,612	293	25	89
15m (Low Pwr)	EI9JN	18,103	306	18	54
40m (Low Pwr)	EI6DX	111,100	967	20	81

CQWW CW EI Records

(Up to and Including 2005)

	<i>Callsign</i>	<i>Score</i>	<i>QSOs</i>	<i>Zone</i>	<i>DX</i>	<i>Year</i>
High Power						
All	EI4BZ	1,913,512	2,542	95	329	2002
10	EI6BT	198,128	838	31	91	2000
15	EI8GP	358,150	1,388	32	98	2000
20	EI3DP	525,968	1,715	36	106	1996
40	EI4BZ	197,912	1,131	23	81	2000
80	EI4BZ	142,870	1,140	18	73	2001
160	EI7M (9HC op)	123,214	858	19	72	1996
Low Power						
LAll	EI/SP4Z	1,154,550	1,785	91	339	1999
L10	EI5DI	238,784	1,087	25	66	1992
L15	EI6FR	246,848	1,171	32	101	1998
L20	EI6FR	264,537	1,035	29	104	1996
L40	EI9JN	89,395	269	8	45	2004
L80	EI6FR	56,161	742	12	59	1997
L160	EI7IU	31,507	482	11	50	1998
Assisted (packet)						
A All	EI/AB2E	1,070,520	1,453	94	346	2004
A 10	EI6FR	370,678	1,269	36	118	1999
A 15	No entry					
A 20	EI8GP	142,044	602	26	88	1996
A40	No entry					
A80	No entry					
A160	No entry					
MS	EI7M	7,874,332	6,230	152	579	2005
MM	No entry					



Contest Corner

With Brian EI8IU

Hello again and welcome to my second contest round up.

There were 3 IRTS contests over the last few months. VHF/UHF Field Day, 2M Counties (Autumn) and the SSB Field Day.

For the VHF/UHF field day I received 2 logs.

VHF/UHF Field Day Results

		Valid QSOs	Points
1.	EI4GRC/P	81	31225
2.	EI7T/P	32	7096

Autumn 2m Counties Results

High Power Fixed

		QSOs	Counties	Points	QTH
1.	EI2JD	24	11	1221	LH
2.	EI3GRB	15	10	650	CE

Low Power Fixed

1.	EI3ENB	19	11	847	KK
----	--------	----	----	-----	----

Low Power Portable

1.	EI7GY/P	36	14	2576	LS
2.	EI4CF/P	26	15	1440	TY

1. MN0LBA/P is the leading station outside EI and so is eligible for an award.

High Power Portable

1.	EI2SBC/P (EI6IB & EI8IU)	53	17	4114	LD
----	-----------------------------	----	----	------	----

FM Only

1.	EI4HX/P	22	16	1760	CN
2.	EI8FFB	18	11	770	KK

Thanks to EI3DWB and EI3JD for sending in check logs.

As can be seen from the above, the "Usual Suspects" are in the usual places.

But, I must say that I am disappointed with the amount of logs returned for the 2m contest.

As can be seen from some of the scores, there were a reasonable amount of stations active (although less than on other occasions), yet I received only 11 logs.

So, next time, PLEASE send in a log no matter how well or poorly you think you might have done!

SSB Field Day (Restricted section)

		Valid QSOs	Mults	Points
1.	EI3Z/P (EI9HX, EI8IU, EI6HW, EI6IB, EI3HA)	615	74	2381
2.	EI1DD/P (EI8CE, EI5DI, EI4JM, EI2CA)	560	81	2316
3.	EI4GRC/P (EI9JT, EI8HJ, EI6JU, EI3ER, EI2II)	140	47	632
4.	EI7T/P (EI3FFB, EI3ENB, EI2IT, EI1485)	100	31	440

SSB Field Day was held over the first weekend in September. 3 stations operated from the central location of Garbally College, Ballinasloe, and EI7T/P operated independently from Mooncoin, Co Kilkenny.

Again this year, it was a very closely fought battle between EI1DD (Dalkey Island Contest Group) and EI3Z (Shannon Basin Club). This time however EI3Z just won by a head.

All parties enjoyed a great weekend and as usual the Shannon Basin Barbecue was a major success, thanks to Tony EI3HA, Fr Niall EI4CF (for organising the use of the fabulous grounds) and to the Shannon Basin Club for sponsoring the event. Congratulations to all the winners!

But don't forget that those first places are there for the taking, so take part, enjoy and send in logs!

Until next time, 73s de EI8IU.

IRTS Contests 2007

In 2007, IRTS will be sponsoring 7 contests, starting with the 80 metres Counties Contest on 1st January, and concluding with the special CQIR - Ireland Calling Contest on 29th and 30th September.

The full IRTS Contest Calendar for 2007, along with the rules of each contest, are now on the "Contests" page of the IRTS web site, at www.irts.ie

Participating in contests is a great way to improve your operating skills, including operation under field day conditions, and to work those rare counties.

World Radio Team Championships 2006

QSOs from EI with WRTC contestants

70	EI4BZ
54	EI5DI
17	EI4CF
12	EI2JD
10	EI4DW

International Police Association Radio Club Contest

The I. P. A. Radio Club (IPARC) invites all radio-amateurs of the world to take part in the IPARC-Contest which takes place on the first weekend in November.

Modes and times:

CW	04. Nov. 2006	0600 - 1000 UTC	and	1400 - 1800 UTC
SSB	05. Nov. 2006	0600 - 1000 UTC	and	1400 - 1800 UTC

Full rules available from the Editor - ei4bz@eircom.net



German Award World Cup 2006

Award Applications Received from EI up to September 17, 2006

Gold:

EI2JD, EI8DD, EI8EM, EI9FBB,
EI9FVB, EI9HX.

Silver:

EI6ARB, EI9CBB, EI9O.

Bronze:

EI7FAB, EI8BP.

New Region One 144 MHz Tropo Record set by EI5FK and RW1ZC/MM

Just over one year ago on the 15th August 2005 the region one 144MHz Tropo record was broken by RW1ZC/MM and Charles Coughlan EI5FK.

The new distance record stands at 3,751km

The old record of 3,264km which stood since 1988 had only been broken a few weeks earlier by G4LOH and RW1ZC/MM at a distance of 3,487km.

Alex RW1ZC uses 100w and a single 9ele Yagi and was located off the coast of Mauritania in a fishing boat.

Information on these QSO's can be found on the website of EI5FK, G4LOH and DF5AI

Congratulations Charles!



Charles EI5FK

Foyle & District Amateur Radio Club 1st Amateur Radio Rally

Sunday 5th November 2006

Whitehorse Hotel, Campsie, Londonderry.

3 Miles from the Foyle Bridge on the Portrush Road

Special Guest - IAN WHITE from Radcom
"In Practice Live" Bring your questions.

Traders

Tyrone Amateur Electronics - Long Communications

P & D Amateur Radio - JBT Trading

Foyle Communications - North West Communications

EI3CARR Internet Gateway (EI4JR & GI8AIR)

RSGB Bookstall & Bureau - WT. Repeater Stand

North West Model Aircraft Club, displaying a Jet Engine

Free Bring & Buy Stall

Talk-in S22 145.550 Approx. 11.00am - 2.30pm

Please follow road signs.

Disabled access from 11.30am: Doors open 12.00pm

Admission Stg£2.00.

Children Free

Tea / Coffee.. snack bar... & Sunday carvery lunches available
For the XYL's City centre shopping from 1-5.30 pm approx.

Further details gi7fjy@hotmail.com

Contest Calendar

November 2006

4/5th	1200-1200	Ukrainian DX Contest	CW/SSB/RTTY
11/12th	0000-2359	Worked All Europe DX Contest	RTTY
11/12th	0700-1300	Japan International DX Contest	SSB
11/12th	1200-1200	OK/OM DX Contest	CW
17th	1600-2200	YO International PSK Contest	PSK31
18/19th	1200-1200	LZ DX Contest	CW/SSB
18/19th	1600-0700	All Austrian 160m Contest	CW
18/19th	2100-0100	RSGB 160m Contest	CW
25/26th	0000-2359	CQWW DX Contest	CW

December 2006

1/3rd	2200-1600	ARRL 160m Contest	CW
9/10th	0000-2359	ARRL 10m Contest	CW/Phone
16/17th	1400-1400	Croatian CW Contest	CW
30th	0000-2359	RAC Canada Winter Contest	CW/Phone

January 2007

1st	1200-1500	IRTS 80m Contest	CW/SSB
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For details of smaller contests and links to contest rules and results try the following:

WA7BNM Contest Calendar <http://www.hornucopia.com/contestcal/>

SM3CER Contest Service <http://www.sk3bg.se/contest/>

Islands On The Air Contest 2006 Provisional EI Results

<i>Call</i>	<i>Score</i>	<i>QSOs</i>	<i>Mults</i>	<i>Pwr</i>	<i>QTH</i>
DXpedition High Power					
EJ2MT	7,464,528	2,828	444	HP	Bere Island
EJ0GI	3,152,370	1,947	274	HP	Inish Oirr
EJ4F	1,599,615	1,209	203	HP	Arranmore
EI/G3LZQ	137,634	479	58	CW	12 LP Innishmore
Fixed Multi Single High Power					
EI7M	4,620,411	2325	349	HP	EU115
Fixed Mixed 24 Hour Single Operator Unassisted					
EI5DI	675,540	940	139	HP	EU-115
Fixed Mixed SSB 24 Hour Single Operator Unassisted					
EI2II	615,831	803	131	HP	EU-115
EI8GS	452,790	985	90	HP	EU-115
Fixed Mixed SSB 12 Hour Single Operator Unassisted					
EI4CF	281,853	457	99	LP	EU-115
EI7CC	226,314	286	88	LP	EU-115
Fixed Mixed CW 12 Hour Single Operator Unassisted					
EI/W5GN	70,680	408	38	LP	EU-115
EI8FH	56,259	139	47	QRP	EU-115
Fixed Mixed CW 24 Hour Single Operator Assisted					
EI9ES	53,190	162	45	LP	EU-115
Fixed Mixed SSB 24 Hour Single Operator Assisted					
EI7JR	46,068	121	44	LP	EU-115

The provisional IOTA Contest results have been announced and time is being allowed for stations to comment on any errors etc.

We will have more detailed look in the next issue.

Congrats to EJ2MT who despite losing most of their aerials just before the start, recovered and still finished in second place in the DXpedition section. They were narrowly beaten by M8C. They once again win the IRTS IOTA Trophy. The overall winner was MD4K (a fixed station) from the Isle of Man.

Paul O'Kane EI5DI should receive the IRTS DX Cup as the leading EI single operator and Barry EI/W5GN is the leading CW station.



Reading the Mail

By

Michael McNamara, EI2CL

Welcome to compilation #43 of "Reading the Mail" – an account of IRTS incoming QSL Bureau activity from 18 June to 10 September 2006.

As has been the position some time, there is not a lot in this report but for the record, small packets (less than 1 kg) came from ARM, ARRL x2, Dutch buro, EDR x2, FMRE, KARS, NZART, ORARI, PT7-buro, RCP, SARA, TA3YJ, USKA, and VE2-buro.

Heavier lots that kept me busy came from ARI x2, HRS, PZK, SRAL, SRR, ZRS (2kg each), PZK, RSGB, (3.9 kg each) and DARC 9.7kg.

Cards from the following were thought worthy of mention: VP8CMH/mm, A52CDX, EKG90GM, HE1TELE, HS0ZDZ, HZ1IK, OD5/DF7TH, SQ0NATO, T00XC, T70A, T6X, TM380, TP7CE, TU5IJ, TZ6RN, UE0JX, V5/SP6IXF, XU7AB, XY5T, YA5Y, YI9KT, 4T4V, 4T75O, 5T0CW, 5V7C, 7P8NR, 7Q7MM, 9G5GJ and 9G5OO. For IOTA chasers, the notables were D4B, EM1HO, FR5/DK4CD, GH8KGC/p, HI2UD (1988 qso), HI6UD, HK0FD, J48K, JW/F8DVD, JW0PK, LZ/IZ0CKJ, OC4P, S9BB, T33C, TA0/IZ7ATN/p, TF4/LX9EG/p, TM7C, TO5S, TO7C, T32WW, V8PMB, XF1K, YE0HQ, YV5/IZ1DLV, ZA0IS, ZD7ZA, ZD8ZA, ZS1RBN, and 5B/G4SSH.

Congratulations to all recipients. Until my next report, all best wishes and lots of good DX.

Michael McNamara, EI2CL

Mid-Ulster Annual General Meeting

The Mid Ulster Amateur Radio Club held its AGM at the Kin-nego Marina on September 10th.

The election of officer's was chaired by Peter MI5JYK, Regional Manager RSGB.

The result's were as follows:

Chairman	John GI0KUH
Secretary	Stephen MI3SEO
Asst, Secretary	Kevan MI3LZV
Treasurer	Danny GI4NKD
Asst. Treasurer	David MI3IRZ

The AGM was well attended we would like to thank all the members for their support.

Monthly 4 Metre Net

The 4-metre activity night takes place on the first Tuesday of each month between 20:00 and 22:00 local time. The next activity night is Tuesday the 7th of November. Please send reports to "ei3ix at eircom dot net". Call in frequency is 70.2625 MHz. So if you have any AM/FM/SSB gear, vertically or horizontally polarised, give a call in! Have a listen for the 4-metre simplex on 70.350 MHz.

IRTS

80m Contest

January 1st 2006

1200 - 1500

Letters to the Editor....

HF QRM

Dave,

I would like to bring to the notice of all HF enthusiasts the appearance for some considerable time of widespread pulse-type noise, probably some form of OTH (over-the-horizon) Radar , just one more source of noise to add to the bleeps, sweeps, pulses, tones etc. I have written letters in several magazines asking some questions about this new HF pulse noise but have had no satisfactory answers, and in fact the mystery has begun to deepen lately.

Around two years ago I began to hear a repetitive slow pulse across many MHz portions of HF. Now I know what most domestic noises (thermostats, TV line timebases, switched-mode PSUs etc) and extraneous QRM (RTTY, digital modes, BC jammers, normal OTH Radar,etc) sound like, but this is a new one.

Normal OTH Radar pulses occupy a few tens of kHz.

Remember the Odessa Woodpecker ?,but not up to 10MHz occupancy !

At first this pulse could occupy virtually a continuous spectrum of about 6.6MHz right up to 26MHz at varying strengths depending on HF conditions. At times it would lift an S-meter up to the equivalent of an S6 signals on portions of HF. That is strong for a pulse transmission.

The strange thing in addition to the wide frequency spread is the very slow pulse rate, normally about 5 pps, whereas HF OTH normally is pulsed at 50,100 or more pps.

I have heard the transmissions at strong levels at night above 12MHz in SE Spain when other signals are quite weak and here during the day above 20MHz when there is little to be heard on amateur or BC frequencies. The format of the signal has had some changes in recent weeks, perhaps 'they' are still 'experimenting'.

One night whilst listening to R Australia 13620KHz at about 2230UTC I heard the pulser in the background and over about 11 to 16MHZ but suddenly after about 40 minutes it went off the air, night shift gone home ?

Additionally I have heard the transmissions a few mornings with different pulse rates. Around 0800-0900utc the lower spread of pulses, about 6.5 to 12MHz slowed to about 4 pps and the upper transmissions 13.5 to 20MHz speeded up to about 6pps.

In both cases the amateur bands at 7 and 14 MHz were badly affected but I did not hear anyone commenting on it.

As the signals vary greatly in their spread and amplitude I think that they emanate from a DX location but without a beam I cannot even guess the heading.

So lads with the HF beams go for it ! Best way to hear it is to listen around 7.5 to 8MHz on a clear channel on AM or maybe about 13MHz in the evenings.

Don't expect a QSL card for reception. But like the crooked wallpaper once you notice it , never forgotten.

Finally could anyone tell me what kind of a transmitter can emit slow pulses at appreciable level over a 10MHz spread? Why, who, where????

Des Walsh EI5CD

Reflections of 6 months on air !

Dear Editor,

A letter from Tony (EI5EM) in the last edition of Echo Ireland, prompted me to ponder back over the last few months to when I got my call sign in February 2006.

Working the bands since then I have been made very welcome by the vast majority of "A" call holders.

However the thoughts expressed by a small minority of "A" licensee holders amuse me .

Comments like "real amateurs operate CW" , " you must have a 2 letter call for HF, it sounds better" & been referred to as a "recycled SWL & CBer" come to mind .

I would be first to agree that CW is probably the best mode of communication available, and I fascinate at and congratulate those operators who excel at this mode, but it is NOT FOR ME.

I spent many hours learning CW over 20 years ago before I realized I would never master the art. Over the last 6 months or so with about 70w. and homemade wire aerials I have managed to clock up 78 DXCC entities . This was during the "summer doldrums" in the minimum of the solar cycle .

A couple of weeks ago I was in QSO with an "A" operator and I knew the conversation was going to drift towards the "A" license , I tried to change the subject and mentioned that earlier to day I was on the 'phone pricing steel to make up a tower with a view of erecting some beams for the higher bands.

On the next over he recommended an engineering firm who would fabricate the tower for me and highly recommended a FORCE12 **** beam .

I would have thought that a 'real amateur' would be able to construct his own tower and aerials.

Ham radio is a fantastic hobby but please encourage new comers, because after having been a SWL for 30 years I can state than the hobby is declining here in EI. Long gone are the interesting nets of the 70's. Hopefully more clubs will try to encourage and help newcomers.

I would be more than happy speak to any one of you on HF/ VHF in the future but please do not break in on CW, 'cos after all you know I am only a "B" license holder.!!

73 de

Bob EI3GR'B'

Outgoing QSL Bureau

Please mail your cards directly to the Outgoing Bureau Manager:

Anthony Baldwin EI8JK,

Rathlin, Kilcrohane,

Co. Cork.

ei8jk@amsat.org



10% discount for IRTS members

As an extra benefit of membership, IRTS has entered into a special arrangement with the Radio Society of Great Britain (RSGB) for IRTS members to get discounted Amateur Radio Books. This dedicated service is based online so is available to you 24 hours a day. The books are delivered by standard post direct to your door and attract a 10% discount for IRTS Members (Some exceptions apply). The range is wide with titles being stocked from RSGB, ARRL, DARC and many others.

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New Watson Hunter Freq. Finder.....	£50.00	MD1, very nice condition	£75.00
New Watson FC130 Freq. Finder.....	£60.00	MD100, new, never used	£100.00
MFJ 993 Auto ATU, as new few weeks old.....	£165.00	Linear Amp SPC super tuner in good working condition, approx 1 year old, just been serviced and checked.....	£300.00
Icom 720A with matching PSU, both original, boxed with manuals.....	£300.00	Alinco DX701, very clean condition with manual ...	£245.00
VX 150, mint as new, wide band TX and RX	£75.00	New Yaesu GS 065 mast head bearing	£47.50
Alinco DJ SLE handheld with manual and drop in charger...	£50.00	Addonis 708E desk mic, as new, boxed.....	£85.00
FDK700 2 meters FM transceiver, boxed, in good condition...	£50.00	SM2Only 1 left	£130.00
FT1000 MP, mint, as new in the box with manual etc., a nice example	£925.00	Adonis 813 in lovely condition, boxed ... Can be used with 3 radios. Wiring diagram for popular radios included.....	£80.00
Kenwood MC 60, as new	£85.00	Oskerblick 2000 SWR meter in used condition, 100% working	£50.00
Kenwood TS450S in perfect working condition, with box manual etc	£395.00	Icom 718, only 8 months old, mint condition ...	£345.00
Kenwood TM733E, in good condition with manual.....	£135.00	All prices include delivery to the UK and N. Ireland with one week returns if any item is not as described.	
Kenwood PS53, as new 3 months old.	£155.00	Trade-ins are always welcome.	
		All emails will be answered a.s.a.p.	

IRTS VIDEO LIBRARY

Listed are the videos being held by the IRTS Video Library.
Please include €2.00 Euro to cover the cost of postage. Send your requests to: Jim Ryan EI3DP, 11 Knockgriffin, Midleton, Co. Cork.

Amateur Radio for beginners (RSGB)

This is an excellent video in two parts, the hobby of the space age, (22 minutes) followed by "How to become a radio Amateur". (21 minutes)

Fastnet Force 7

A record of the DXpedition to Fastnet Rock Lighthouse, (40 minutes)

Kippure

A tour of the RTE Radio/TV site at Kippure mountain (30 minutes)

Howland Island Dxpediton

Record of the HI Group 1988 trip NO1Z / KH1. (30 minutes)

The New World of Amateur Radio – ARRL

A short introduction to the hobby of Amateur Radio (30 minutes)

Amateur TV in Australia – VK5KG

An introduction to FSTV in Australia. (30 minutes)

Seven Days in Space – NASA

A week on board the American shuttle Discovery. (60 minutes)

Amateur TV – RSGB

Fastscan TV in UK also includes the VK5KG film. (120 minutes)

DATA trip to Dayton 1990

A record of the trip to America by the Dublin Amateur Travel Association (120 minutes)

IRTS Anniversary Lunch

A record of the lunch held in the Clarence Hotel Dublin to pay tribute to the founder members of the IRTS, October 1992. (60 minutes)

Dublin Texas W5IMF

A tape by W5IMF at the time of the Dublin Millennium 1988, (30 minutes)

Introduction to Ham Radio

Includes STS 9 mission and fighter aircraft.

(120 minutes)

Galway Radio Club 1984

Selection of events from 1984/1985. (40 minutes)

Galway Radio Club 1985

Selection of events from 1985, Field Day, Aerial lecture and River race. (120 minutes)

Pitcairn Islands

A look at life on the islands including some of the resident amateurs. (70 minutes)

Getting started in Packet Radio. CQ Mag.

How to set up and get on air with Packet. (45 minutes)

Radio Team Finland PJ9W-1990 CQWW SSB Contest

An account of the setting up and operation of the winning multi-operator contest station by a team of Finnish operators. (45 minutes)

CQ Field Day

Setting up and operating a Field Day station for club enjoyment, training and competition American style. (25 minutes)

Getting Started in Amateur Satellites

A guide to equipment and jargon of satellite communication for the beginner. (50 minutes)

Campbell Island 1999 – ZL9CI

A record of the record breaking DXpedition to Campbell Island. Declan EI6FR was a team member. (60 mins).

WRTC 2000 in Slovenia

The 3rd World Radio Team Championships were held in Slovenia in the Summer of 2000. Jim EI8GS and Dave EI4BZ attended from Ireland.

Kinsale Lighthouse during International Lighthouse Weekend 2001

Members of the Wicklow Wireless Society and friends acti-

EI60LRC

Limerick Radio Club is QRV as EI60LRC until the end of the year to mark 60 years since the clubs foundation.

Members Advertisements

For Sale: Kenwood TS 570d in PWO fitted with 1.8 kHz SSB filter ... €690.00

Tele 087 7433759 or email ei0cz@eircom.net

For Sale: GRE PSR-216 hand-held portable scanner, 200 programmable channels, built-in charging circuit, flexible ant and manual, boxed and in excellent condition.

Coverage:- 66-88MHz, 108-174MHz, 380-512MHz & 806-960MHz.

Great reception in cities and urban areas, just too little activity here in the West!

€80.00, including p&p anywhere in Ireland.

Peter Mac Dougall, EI 299

Tel. 094 93 84525 or e-mail g7vew@gwa.ie

For Sale: ATV Equipment as follows:

Worthing group TX, 10 watt amp to suit

2 channel Video Distribution Amp (1 in 6 on each channel) -

ex RTE: 9 inch b/w monitor

JVC camcorder (faulty but OK as shack camera on main PSU)

23 cm long Yagi: Maspro RX. Line amp for Maspro

Contact Craig EI3FW at craigrobinson@eircom.net

For Sale, due to house move.

Harris Auto Antenna Tuner.

This is a big heavy item designed for shipboard use. It lives at base of Antenna with a multi cable to control unit in shack.

Was new and has only been fired up once to test. ... €50.00

Racal RA2170 Rx. Again this is a heavy item made to highest Milspec. Coverage 1-30 MHz.

Comes with a spare, non working, Rx. ... €50.00

30' galvanised Tower, hinged base, SS bolts.

Triangular sections each 10' long. ... €50.00

Rod EI3CZ 01-4582287 QTHR

For Sale: Model: MA5V Crushcraft

Frequency (m): 20, 17, 15, 12 & 10: Gain: 1 - 2 dBi

SWR min.: < 1.2:1 All Bands

Power Rating, (w) PEP.: 250 SSB

Dimensions: 4.48m High: Mast Size: 0.0318 - 0.051 m

Wind Survival, (km): 130: Weight (kg): 2.95

Hardware: Stainless Steel

Price: €240 ono

Contact: Peter EI5JE on 01-4519474.

For Sale: FT-736R, VHF/UHF all Trx with 50, 144 & 430MHz fitted. Includes accessories fitted: 37 tone CTCSS, keyer Unit B. Iambic keyer, XF 455MHz 600Hz CW narrow filter. Boxed. All in very good condition. Price €1,000.00

Wanted: IC756PRO 11

Call Leo on 01-2809382 anytime.

Sincere apologies to Michael EI2FJ whose advertisement did not appear in the last issue. Unfortunately his letter was misplaced and despite exhaustive searches, still cannot be found.

Dave EI4BZ, Editor



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Icom IC707 Budet priced HF Transceiver. 100w €499.00
Icom IC7000. Latest Icom Multibander.
Display model..... €1,399.00
Icom IC706MKII. HF + 6m + 2m inc. DSP €749.00
Icom IC756 large LCD Screen, auto ATU, HF + 6m.... €999.00
Yaesu FT817. HF/6m/2m/70cm 5w portable all mode. €499.00
Kenwood TS50S 100w, all mode Mobile HF €599.00
Icom IC706MK2G HF +6 +2 +70cm, DSP €849.00
Yaesu FT 920, HF/6m, Auto ATU, FM fitted, Mint .. €1299.00
Kenwood TS450SAT Auto ATU. Extra Filters fitted .. €849.00
Yaesu FT 900 100w, detachable head, boxed €649.00
Kenwood TS850 SAT Auto ATU Private Sale €999.00
Alinco DX 70 HF + 6m, 100w mobile rig €599.00
Alinco DX 70TH HF + 6m. 100w on 6m €649.00

Shortwave Receivers

- AOR 7030. Award Winning Rx. Boxed, mint condx ... €749.00
AOR 5000. All mode, 0-2600MHz. Top class Rx €1499.00
Yaesu FRG8800. 0-30MHz also VHF Converter €349.00
Lowe HF225. 0-30MHz, AM/FM option €349.00
Yaesu FRG100. 0-30MHz. All Mode with PSU..... €499.00
Yaesu FRG 7700. 0-30MHz, boxed good condx. €299.00
Kenwood R2000 Communications Receiver. Mint..... €375.00

VHF/UHF Transceivers

- Yaesu FT736R Base station 2m/70cm with 6m fitted . €999.00
Kenwood TM241E 50w 2m mobile. No bracket/book . €149.00
Alinco DJ190 2m handheld with drop in charger €129.00
Icom IC821H 2m/70cm 45/35w base m/mode, Mint ... €899.00
Kenwood TR751E, 2m SSB rig, 25 watts. €349.00
Alinco DR605 50/35w dual band mobile €249.00
Kenwood TM733E. 50/45w full featured mobile €289.00

Scanning Receivers

- Bearcat 780XLT, 25-1300 MHz, no gaps, trunk tracker,
500 memories, alpha tagging. Used. €299.00
Icom PCR1000 with DSP. Computer control.
0-1300MHz with SSB receive. Boxed, as new €375.00



Yaesu FT 2000

Latest flagship from Yaesu.....€2,999.00

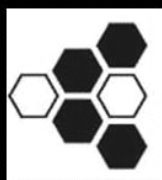
- AOR5000. 0-2600MHz. All mode. Top class Rx €1,399.00
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with nicads and charger €159.00
AOR 3000A 0-2036 MHz, 400 mems. LSB/USB etc .. €699.00
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Icom ICR 20. Latest scanner from Icom,
Built in recorder €449.00
Uniden Bearcat 3300XLT 1000 ch, 25-1300MHz.
with nicads and charger €249.00

Station Accessories

- Alinco EDX-2. Auto ATU, external, for DX70 etc €289.00
Yaesu MD100A8X Desk Mic for FT847/1000/920 €139.00
Kenwood PS33, 20A Matching PSU for TS570/2000 .. €199.00
Uniden Oceanus Marine VHF, 25w, US & international €139.00
Watson W-30AM. 30-35 Amp PSU with twin meters,
volts and amps, 0-15 volts variable. €149.00
West Mountain Radio Rigblaster Pro, all mode decoder,
Demonstration model. €279.00
MFJ 993 Auto ATU, latest model. €279.00
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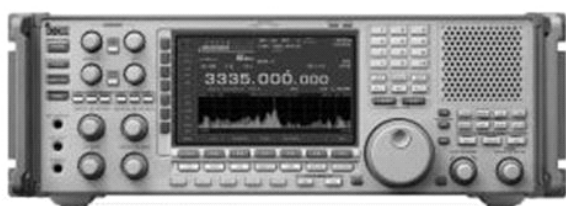
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IC-R9500	WIDEBAND BASE STATION RECEIVER
X3	TRANSCEIVER

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Icom Inc. have recently launched the new 'top of the range' IC-R9500 wideband base station receiver at the Tokyo Ham Fair 2006. As the successor to the world-renowned IC-R9000/L, there will be a lot of interest from this ultra-wide band receiver that covers 0.005-3335MHz-frequency range and features technology that is based on and surpasses the IC-7800.

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All Enquiries to Padraic Baynes, EI9JA, 087 6957154 (evenings)